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1.4 protobuf-java 3.20.1

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Found in path(s):

```
* /opt/cola/permits/1473577716_1668493707.5161126/0/protobuf-java-3-20-1-2-jar/google/protobuf/any.proto  
* /opt/cola/permits/1473577716_1668493707.5161126/0/protobuf-java-3-20-1-2-jar/google/protobuf/api.proto  
* /opt/cola/permits/1473577716_1668493707.5161126/0/protobuf-java-3-20-1-2-jar/google/protobuf/timestamp.proto  
* /opt/cola/permits/1473577716_1668493707.5161126/0/protobuf-java-3-20-1-2-jar/google/protobuf/source_context.proto  
* /opt/cola/permits/1473577716_1668493707.5161126/0/protobuf-java-3-20-1-2-jar/google/protobuf/wrappers.proto  
* /opt/cola/permits/1473577716_1668493707.5161126/0/protobuf-java-3-20-1-2-jar/google/protobuf/descriptor.proto  
* /opt/cola/permits/1473577716_1668493707.5161126/0/protobuf-java-3-20-1-2-jar/google/protobuf/compiler/plugin.proto  
* /opt/cola/permits/1473577716_1668493707.5161126/0/protobuf-java-3-20-1-2-jar/google/protobuf/empty.proto  
* /opt/cola/permits/1473577716_1668493707.5161126/0/protobuf-java-3-20-1-2-jar/google/protobuf/field_mask.proto  
* /opt/cola/permits/1473577716_1668493707.5161126/0/protobuf-java-3-20-1-2-jar/google/protobuf/type.proto  
* /opt/cola/permits/1473577716_1668493707.5161126/0/protobuf-java-3-20-1-2-jar/google/protobuf/struct.proto  
* /opt/cola/permits/1473577716_1668493707.5161126/0/protobuf-java-3-20-1-2-jar/google/protobuf/duration.proto
```

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Manifest-Version: 1.0

Automatic-Module-Name: com.google.protobuf

Bnd-LastModified: 1650575142706

Build-Jdk: 1.8.0_181-google-v7

Built-By: haberman

Bundle-Description: Core Protocol Buffers library. Protocol Buffers are a way of encoding structured data in an efficient yet extensible format.

Bundle-DocURL: <https://developers.google.com/protocol-buffers/>

Bundle-License: <https://opensource.org/licenses/BSD-3-Clause>

Bundle-ManifestVersion: 2

Bundle-Name: Protocol Buffers [Core]

Bundle-SymbolicName: com.google.protobuf

Bundle-Version: 3.20.1
Created-By: Apache Maven Bundle Plugin
Export-Package: com.google.protobuf;version="3.20.1"
Import-Package: sun.misc;resolution:=optional,com.google.protobuf;version="[3.20,4)"
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.0.0.201509101326

Found in path(s):

* /opt/cola/permits/1473577716_1668493707.5161126/0/protobuf-java-3-20-1-2-jar/META-INF/MANIFEST.MF

1.5 micronaut-groovy 3.1.0

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```

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* /opt/cola/permits/1331474157_1653512453.5913334/0/micronaut-runtime-groovy-3-1-0-sources-jar/io/micronaut/context/env/groovy/SetPropertyTransformer.groovy
* /opt/cola/permits/1331474157_1653512453.5913334/0/micronaut-runtime-groovy-3-1-0-sources-jar/io/micronaut/context/env/groovy/ConfigurationEvaluator.groovy
* /opt/cola/permits/1331474157_1653512453.5913334/0/micronaut-runtime-groovy-3-1-0-sources-jar/io/micronaut/context/env/groovy/GroovyPropertySourceLoader.java
* /opt/cola/permits/1331474157_1653512453.5913334/0/micronaut-runtime-groovy-3-1-0-sources-jar/io/micronaut/context/env/groovy/package-info.java

1.6 junit-jupiter-junit-jupiter-engine 5.3.1

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1.7 zip4j 2.10.0

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* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/UnicastManySinkNoBackpressure.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxConcatMapNoPrefetch.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/SinkOneSerialized.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/retry/RetrySpec.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/InternalManySink.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/SinkEmptyMulticast.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/retry/RetryBackoffSpec.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/retry/ImmutableRetrySignal.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/context/ContextView.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/Timed.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/InternalOneSink.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/SinksSpecs.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/SinkManyBestEffort.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/retry/Retry.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/InternalEmptySink.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/SinkEmptySerialized.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/DelegatingScheduledExecutorService.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxTimed.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/SinkManySerialized.java

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* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoSink.java

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* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoUsingWhen.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxUsingWhen.java

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* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxCreate.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/EmitterProcessor.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxBufferTimeout.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxGenerate.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxHandleFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoIgnoreThen.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxHandle.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxReplay.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoCreate.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/SinkOneMulticast.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxMapSignal.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxSink.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxMap.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/SynchronousSink.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxMapFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/Schedulers.java

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* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/function/package-info.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/concurrent/package-info.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoExtensions.kt
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/function/TupleExtensions.kt
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/package-info.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxExtensions.kt
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/package-info.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/package-info.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/package-info.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoFunctions.kt
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/context/package-info.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/adapters/package-info.java

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* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ParallelThen.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/context/CoreContext.java

* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ContextTrackingFunctionWrapper.java

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- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/annotation/Nullable.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/annotation/NonNullApi.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/annotation/NonNull.java

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- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoCacheInvalidateIf.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxSwitchMapNoPrefetch.java

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- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoPublishMulticast.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/context/Context4.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/SchedulerTask.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/OperatorDisposables.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxDelaySequence.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxRefCountGrace.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoCacheTime.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/CoreSubscriber.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoFilterWhen.java
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- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoDelayUntil.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/Scannable.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxExpand.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/PeriodicSchedulerTask.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/context/Context5.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/EmptyCompositeDisposable.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/Disposables.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxWindowTimeout.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/context/Context.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-

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jar/reactor/core/publisher/FluxLimitRequest.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoWhen.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/scheduler/DelegateServiceScheduler.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoExpand.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/StrictSubscriber.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/scheduler/InstantPeriodicWorkerTask.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/scheduler/PeriodicWorkerTask.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxOnBackpressureBufferTimeout.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/util/concurrent/Queues.java
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reactor.core.scheduler.ReactorBlockHoundIntegration
```

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- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/concurrent/MpscLinkedQueue.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/QueueDrainSubscriber.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxMergeComparing.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoMetricsFuseable.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/Traces.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/MonoMetrics.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxSwitchOnFirst.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxMetrics.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/OnNextFailureStrategy.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/ReactorThreadFactory.java
- * /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/FluxMetricsFuseable.java

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* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/scheduler/BoundedElasticScheduler.java

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* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/core/publisher/ContextHolder.java

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* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-jar/reactor/util/context/Context3.java
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* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources

jar/reactor/core/publisher/FluxConcatArray.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoSource.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/Exceptions.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/ParallelPeek.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/MonoFromFluxOperator.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
jar/reactor/core/publisher/FluxAutoConnectFuseable.java
* /opt/cola/permits/1427929591_1664344023.2319765/0/reactor-core-3-4-18-sources-
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jar/reactor/core/publisher/FluxDeferContextual.java
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jar/reactor/core/publisher/BlockingIterable.java
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1.9 grizzly-http 3.0.1

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1.10 jakarta-expression-language-3.0-implementation 4.0.2

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1.11 metrics-integration-with-jmx 4.1.11

1.11.1 Available under license :

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Manifest-Version: 1.0

Build-Jdk-Spec: 1.8

Bundle-Description: A set of classes which allow you to report metrics via JMX.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Metrics Integration with JMX

Bundle-SymbolicName: io.dropwizard.metrics.jmx

Bundle-Version: 4.1.11

Created-By: Apache Maven Bundle Plugin

Export-Package: com.codahale.metrics.jmx;uses:="com.codahale.metrics,javax.management";version="4.1.11"
Implementation-Title: Metrics Integration with JMX
Implementation-Version: 4.1.11
Import-Package: com.codahale.metrics;version="[4.1,5)",javax.management,org.slf4j;version="[1.6.0,2.0.0)"
Private-Package: com.codahale.metrics.jmx
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):

* /opt/cola/permits/1341130345_1654768933.025056/0/metrics-jmx-4-1-11-jar/META-INF/MANIFEST.MF

1.12 metrics-core-library 2.2.0

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1.13 findbugs-annotations 3.0.1

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1.14 jakarta-expression-language-3.0-api

5.0.0-RC1

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 */
```

Found in path(s):

```
*/opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/WritingBuffer.java
*/opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/WritingBuffer_Test.java
*/opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/PrettyPrint.java
*/opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/PrettyPrint_Test.java
*/opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/Json.java
*/opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/Json_Test.java
*/opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/WriterConfig.java
```

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 *
 */
```

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*****/

Found in path(s):

- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/ParseException_Test.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/test/mocking/Mocking_Test.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonObject.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/TestUtil.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonWriter_Test.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonString_Test.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonValue.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonParser.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonWriter.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/ParseException.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonObject_Test.java
- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonLiteral.java
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- * /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonArray.java

* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonNumber_Test.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonParser_Test.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonLiteral_Test.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonValue_Test.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/JsonArray_Test.java
* /opt/cola/permits/1162863465_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/JsonString.java

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Vault Java Driver

=====

A zero-dependency Java client for the [Vault](https://www.vaultproject.io/) secrets management solution from HashiCorp.

This driver strives to implement Vault's full HTTP API, along with supporting functionality such as automatic retry handling. It does so without relying on any other external libraries beyond the Java standard library, and is compatible with Java 8 and up. So it will play nice with all of your projects, greenfield and legacy alike, without causing conflicts with any other dependency.

NOTE: Although the binary artifact produced by the project is backwards-compatible with Java 8, you do need JDK 9 or higher to modify or build the source code of this library itself.

This Change

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Installing the Driver

The driver is available from Maven Central, for all modern Java build systems.

Gradle:

```
...  
dependencies {  
    implementation 'com.bettercloud:vault-java-driver:5.1.0'  
}  
...
```

Maven:

```
...  
<dependency>  
  <groupId>com.bettercloud</groupId>  
  <artifactId>vault-java-driver</artifactId>  
  <version>5.1.0</version>  
</dependency>  
...
```

Initializing a Driver Instance

The `com.bettercloud.vault.VaultConfig` class is used to initialize a driver instance with desired settings. In the most basic use cases, where you are only supplying a Vault server address and perhaps a root token, there are convenience constructor methods available:

```
...  
final VaultConfig config = new VaultConfig()  
    .address("http://127.0.0.1:8200")  
    .token("3c9fd6be-7bc2-9d1f-6fb3-cd746c0fc4e8")  
    .build();  
  
// You may choose not to provide a root token initially, if you plan to use  
// the Vault driver to retrieve one programmatically from an auth backend.  
final VaultConfig config = new VaultConfig().address("http://127.0.0.1:8200").build();  
...
```

To explicitly set additional config parameters (*), you can use a builder pattern style to construct the `VaultConfig` instance. Either way, the initialization process will try to populate any unset values by looking to environment variables.

```
...  
final VaultConfig config =  
    new VaultConfig()  
        .address("http://127.0.0.1:8200") // Defaults to "VAULT_ADDR" environment variable  
        .token("3c9fd6be-7bc2-9d1f-6fb3-cd746c0fc4e8") // Defaults to "VAULT_TOKEN" environment variable  
        .openTimeout(5) // Defaults to "VAULT_OPEN_TIMEOUT" environment variable  
        .readTimeout(30) // Defaults to "VAULT_READ_TIMEOUT" environment variable  
        .sslConfig(new SslConfig().build()) // See "SSL Config" section below  
        .build();  
...
```

Once you have initialized a `VaultConfig` object, you can use it to construct an instance of the `Vault` primary driver class:

```
...  
final Vault vault = new Vault(config);  
...
```

Key Value Secret Engine Config

Shortly before its `1.0` release, Vault added a Version 2 of its [Key/Value Secrets Engine](<https://www.vaultproject.io/docs/secrets/kv/index.html>). This supports some addition features beyond the Version 1 that was the default in earlier Vault builds (e.g. secret rotation, soft deletes, etc).

Unfortunately, K/V V2 introduces some breaking changes, in terms of both request/response payloads as well as how URL's are constructed for Vault's REST API. Therefore, version `4.0.0` of this Vault Driver likewise had to introduce some breaking changes, to allow support for both K/V versions.

****If you are using the new K/V V2 across the board**, then no action is needed. The Vault Driver now assumes this by default.**

****If you are still using the old K/V V1 across the board**, then you can use the `Vault` class constructor: `public Vault(final VaultConfig vaultConfig, final Integer engineVersion)`, supplying a `1` as the engine version parameter. constructor, then you can declare whether to use Version 1 or 2 across the board.**

****If you are using a mix, of some secret paths mounted with V1 and others mounted with V2**, then you have two options:**

*** You can explicitly specify your Vault secret paths, and which K/V version each one is using. Construct your `Vault` objects with the constructor `public Vault(final VaultConfig vaultConfig, final Boolean useSecretsEnginePathMap, final Integer globalFallbackVersion)`.**

Within the `VaultConfig` object, supply a map of Vault secret paths to their associated K/V version (`1` or `2`).

*** You can rely on the Vault Driver to auto-detect your mounts and K/V versions upon instantiation. Use the same constructor as above,**

but leave the map `null`. Note that this option requires your authentication credentials to have access to read Vault's `/v1/sys/mounts` path.

Version 2 of the K/V engine dynamically injects a qualifier element into your secret paths, which varies depending on the type of for read and write operations, in between the root version operation. For example, for read and write operations, the secret path:

```
```v1/mysecret```
```

... has a "data" qualifier injected:

```
```v1/data/mysecret```
```

The default behavior of this driver is to insert the appropriate qualifier one level deep (i.e. in between the root version number and the rest of the path). However, if your secret path is prefixed, such that the qualifier should be injected further down:

```
```v1/my/long/prefix/data/anything/else```
```

... then you should accordingly set the `VaultConfig.prefixPathDepth`` property when constructing your `Vault`` instance.

## SSL Config

-----

If your Vault server uses a SSL certificate, then you must supply that certificate to establish connections. Also, if you are using certificate-based client authentication, then you must supply a client certificate and private key that have been previously registered with your Vault server.

SSL configuration has been broken off from the `VaultConfig`` class, and placed in its own `SslConfig`` class. This class likewise using a builder pattern.

### #### General Options

```
```
```

```
.verify(false) // Defaults to "VAULT_SSL_VERIFY" environment variable (or else "true")
```

```
```
```

To disable SSL certificate verification altogether, set `sslVerify(false)``. **YOU SHOULD NOT DO THIS IS A REAL**

**PRODUCTION SETTING!** However, it can be useful in a development or testing server context. If this value is explicitly set to `false``, then all other SSL config is basically unused.

### #### Java Keystore (JKS) based config

You can provide the driver with a JKS truststore, containing Vault's server-side certificate for basic SSL, using one of the following three options:

`.trustStore(object)`` - Supply an in-memory `java.security.KeyStore`` file, containing Vault server cert(s) that can be trusted.

`.trustStoreFile(path)`` - Same as the above, but the path references a JKS file on the filesystem.

`.trustStoreResource(path)`` - Same as the above, but the path references a classpath resource rather than a filesystem

path (e.g. if you've bundled the JKS file into your application's JAR, WAR, or EAR file).

If you are only using basic SSL, then no keystore need be provided. However, if you would like to use Vault's TLS Certificate auth backend for client side auth, then you need to provide a JKS keystore containing your client-side certificate and private key:

``.keyStore(object, password)`` - Supply an in-memory ``.java.security.KeyStore`` file containing a client certificate and private key, and the password needed to access it (can be null).  
can be trusted.

``.keyStoreFile(path, password)`` - Same as the above, but the path references a JKS file on the filesystem.

``.keyStoreResource(path, password)`` - Same as the above, but the path references a classpath resource rather than a filesystem path (e.g. if you've bundled the JKS file into your application's JAR, WAR, or EAR file).

NOTE: JKS-based config trumps PEM-based config (see below). If for some reason you build an ``.SslConfig`` object with both JKS and PEM data present, then only the JKS data will be used. You cannot "mix-and-match", providing a JKS-based truststore and PEM-based client auth data.

#### #### OpenSSL (PEM) based config

To supply Vault's server-side certificate for basic SSL, you can use one of the following three options:

``.pemFile(path)`` - Supply the path to an X.509 certificate in unencrypted PEM format, using UTF-8 encoding (defaults to "VAULT\_SSL\_CERT" environment variable).

``.pemResource(path)`` - Same as above, but the path references a classpath resource rather than a filesystem path (e.g. if you've bundled the PEM file into your applications's JAR, WAR, or EAR file).

``.pemUTF8(contents)`` - The string contents extracted from the PEM file. For Java to parse the certificate properly, there must be a line-break in between the certificate header and body (see the ``.SslConfig`` Javadocs for more detail).

If SSL verification is enabled, no JKS-based config is provided, AND none of these three methods are called, then ``.SslConfig`` will by default check for a ``.VAULT_SSL_CERT`` environment variable. If that's setw then it will be treated as a filesystem path.

To use Vault's TLS Certificate auth backend for SSL client auth, you must provide your client certificate and private key, using some pair from the following options:

``.clientPemUTF8(path)`` - Supply the path to an X.509 certificate in unencrypted PEM format, using UTF-8 encoding.

``clientPemResource(path)`` - Same as above, but the path references a classpath resource rather than a filesystem path (e.g. if

you've bundled the PEM file into your applications's JAR, WAR, or EAR file).

``clientPemUTF8(contents)`` - The string contents extracted from the PEM file. For Java to parse the certificate properly,

there must be a line-break in between the certificate header and body (see the ``SslConfig`` Javadocs for more detail).

``clientKeyPemUTF8(path)`` - Supply the path to an RSA private key in unencrypted PEM format, using UTF-8 encoding.

``clientKeyPemResource(path)`` - Same as above, but the path references a classpath resource rather than a filesystem path (e.g. if

you've bundled the PEM file into your applications's JAR, WAR, or EAR file).

``clientKeyPemUTF8(contents)`` - The string contents extracted from the PEM file. For Java to parse the certificate properly,

there must be a line-break in between the certificate header and body (see the ``SslConfig`` Javadocs for more detail).

## Using the Driver

-----

Like the ``VaultConfig`` class, ``Vault`` too supports a builder pattern DSL style:

...

```
final Map<String, String> secrets = new HashMap<String, String>();
secrets.put("value", "world");
secrets.put("other_value", "You can store multiple name/value pairs under a single key");
```

// Write operation

```
final LogicalResponse writeResponse = vault.logical()
 .write("secret/hello", secrets);
```

...

// Read operation

```
final String value = vault.logical()
 .read("secret/hello")
 .getData().get("value");
```

...

``Vault`` has a number of methods for accessing the classes that implement the various endpoints of Vault's HTTP API:

- \* `logical()`: Contains core operations such as reading and writing secrets.
- \* `auth()`: Exposes methods for working with Vault's various auth backends (e.g. to programmatically retrieve a token by authenticating with a username and password).
- \* `pki()`: Operations on the PKI backend (e.g. create and delete roles, issue certificate credentials).
- \* `debug()`: Health check endpoints.

The driver DSL also allows you to specify retry logic, by chaining the `withRetries()` ahead of accessing the endpoint implementation:

```

...
// Retry up to 5 times if failures occur, waiting 1000 milliseconds in between each retry attempt.
final LogicalResponse response = vault.withRetries(5, 1000)
 .logical()
 .read("secret/hello");
...

```

#### API Reference (Javadocs)

-----

Full [Javadoc documentation](<http://bettercloud.github.io/vault-java-driver/javadoc/>).

#### Version History

-----

Note that changes to the major version (i.e. the first number) represent possible breaking changes, and may require modifications in your code to migrate. Changes to the minor version (i.e. the second number) should represent non-breaking changes. The third number represents any very minor bugfix patches.

**5.1.0**: This release contains the following updates:

- \* Supports path prefixes when using K/V engine V2. [(PR #189)](<https://github.com/BetterCloud/vault-java-driver/pull/189>)
- \* Fixes issues with bulk requests in the transit API. [(PR #195)](<https://github.com/BetterCloud/vault-java-driver/pull/195>)
- \* Adds response body to exception for Auth failures. [(PR #198)](<https://github.com/BetterCloud/vault-java-driver/pull/198>)
- \* Support all options for the createToken operation. [(PR #199)](<https://github.com/BetterCloud/vault-java-driver/pull/199>)

**5.0.0**: This release contains the following updates:

- \* Changes the retry behavior, to no longer attempt retries on 4xx response codes (for which retries generally won't succeed anyway). This is the only (mildly) breaking change in this release, necessitating a major version bump. [(PR #176)](<https://github.com/BetterCloud/vault-java-driver/pull/176>)
- \* Implements support for the Database secret engine. [(PR #175)](<https://github.com/BetterCloud/vault-java-driver/pull/175>)
- \* Makes the "x-vault-token" header optional, to allow use of Vault Agent. [(PR #184)](<https://github.com/BetterCloud/vault-java-driver/pull/184>)

- \* Removes stray uses of `System.out.println` in favor of `java.util.logging`. [(PR #178)](<https://github.com/BetterCloud/vault-java-driver/pull/178>)
  - \* Adds the enum constant `MountType.KEY_VALUE_V2`. [(PR #182)](<https://github.com/BetterCloud/vault-java-driver/pull/182>)
- 4.1.0**: This release contains the following updates:
- \* Support for JWT authentication, for use by Kubernetes and other JWT-based authentication providers. [(PR #164)](<https://github.com/BetterCloud/vault-java-driver/pull/164>)
  - \* Updates the lease revoke method, to support changes in the underlying Vault API. [(PR #163)](<https://github.com/BetterCloud/vault-java-driver/pull/163>)
  - \* Changes the `VaultConfig.secretsEnginePathMap(...)` method from default access level to `public`, to allow for manual setting [(PR #164)](<https://github.com/BetterCloud/vault-java-driver/pull/156>)
  - \* Adds the nonce value to `AuthResponse`, to facilitate re-authentication with Vault via AWS. [(PR #168)](<https://github.com/BetterCloud/vault-java-driver/pull/168>)
  - \* Establishes a `module-info` file, updates the JDK requirement for building this library to Java 9 (although the built library artifact remains compatible as a dependency in Java 8 projects). [(PR #165)](<https://github.com/BetterCloud/vault-java-driver/pull/165>)
  - \* Updates Gradle, and various test dependencies to their latest versions. Integration tests now target Vault 1.1.3.
- 4.0.0**: This is a breaking-change release, with two primary updates:
- \* Adds support for Version 2 of the Key/Value Secrets Engine. The driver now assumes that your Vault instance uses Version 2 of the Key/Value Secrets Engine across the board. To configure this, see the [Key/Value Secret Engine Config](#key-value-secret-engine-config) section above.
  - \* Adds support for the namespaces feature of Vault Enterprise.
- 3.1.0**: Several updates.
- \* Adds support for seal-related operations (i.e. `/sys/seal`, `/sys/unseal`, `/sys/seal-status`).
  - \* Adds support for the AWS auth backend.
  - \* Adds support for the Google Cloud Platform auth backend.
  - \* Adds support for the LDAP auth Backend.
  - \* Allows auth backend methods to be configured for non-default mount points.
  - \* Adds "revoke-self" capability for auth tokens.
  - \* Adds support for response-wrapping token validation
  - \* Support for signing a new certificate based on a CSR (i.e. the `/v1/pki/sign` endpoint).
  - \* Support for the PKI backend revoke method, and addition of a `useCsrSans` property in PKI role object
  - \* Gives `VaultConfig` the ability to disable loading from environment variables if desired.
  - \* Cleans up issues with the new Docker-based integration test suite.
  - \* Updates all dependencies to their latest versions (including switching to Vault 0.9.1 for integration testing).
- 3.0.0**: This is a breaking-change release, with several updates.
- API changes**:
- \* Adds support for writing arbitrary objects to Vault, instead of just strings (i.e. the `com.bettercloud.vault.api.Logical.write(...)` method now accepts a `Map<String, Object>` rather than a `Map<String, String>`).

- \* Refactors the `\VaultConfig`` class, forcing use of the builder pattern and breaking off SSL-related config into a separate `\SslConfig`` class.
- \* Refactors the `\Auth.createToken()` method, to encapsulate the possible options within a config object rather than having the method signature contain 8 optional arguments.
- \* **SSL and Auth Backend support**:
  - \* Adds support for authenticating with the TLS Certificate auth backend.
  - \* Updates SSL support in general, allowing users to configure the driver with Java-friendly JKS keystore and truststore files (in addition to continuing to support Vault-friendly PEM format).
  - \* Implements the `\v1/auth/token/lookup-self`` endpoint.
  - \* Supports creating tokens against a role.
- \* **Major re-vamp of the integration test suite**:
  - \* The tests now use the [TestContainers](https://www.testcontainers.org/) library to setup and launch a Vault server instance from within a Docker container, in a completely automated manner. You no longer have to manually configure and run a Vault server to use the test suite!
  - \* The tests are now going against a regular Vault server, rather than one running in "dev mode". Therefore, they are now able to use HTTPS connections rather than plain HTTP.
  - \* Upgrades tests to use Java 8 (although the library itself still targets Java 7).
- \* **Misc / quality-of-life**:
  - \* Includes the REST response body in `\VaultException`` messages for basic read and write operations.
  - \* Makes numerous classes implement `\Serializable``.
  - \* Upgrades the project to Gradle 4.0.
- \* **2.0.0**: This is breaking-change release, with numerous deprecated items cleaned up.
  - \* Adds support for authentication via the AppRole auth backend.
  - \* Adds support for renewing secret leases.
  - \* Removes the `\com.bettercloud.vault.api.Sys`` class, deprecated in the 1.2.0 release.
  - \* Removes the `\com.bettercloud.vault.api.Auth.loginByUsernamePassword`` method, deprecated in the 1.2.0 release.
  - \* Removes the fields `\leaseId``, `\leaseDuration``, and `\renewable`` from the `\VaultResponse`` base class, instead including them only in the subclasses for specific response types where they are found.
  - \* Changes the `\com.bettercloud.vault.response.AuthReponse`` class field `\authLeaseDuration`` from type `\int`` to `\long``.
  - \* Refactors and removes various deprecated `\private`` methods, with no change to the exposed API.
- \* **1.2.0**: This is a substantial release, with numerous additions. It's a minor version number only because there should be no breaking changes. The changes include the following:
  - \* Switches from Vault 0.5.x to 0.6.x for automated tests.
  - \* Adds a field to `\VaultException`` for capturing the HTTP response code (if any) from Vault.
  - \* Updates the Gradle build, so that you no longer need empty placeholder values for certain variables elsewhere in your environment.
  - \* Updates integration test suite to account for breaking changes in Vault 0.6.x (e.g. you can no longer use a token that was obtained from one of the authentication backends to perform tasks such as creating and deleting roles, etc).
  - \* Deprecates the App ID authentication backend, and adds a new version of the Userpass authentication backend that doesn't require a path prefix. Adds support for the GitHub authentication backend.
  - \* If the `\VAULT_TOKEN`` environment parameter is not set, then the driver will now check for a file named

``vault-token``

in the executing user's home directory, and try to read a token value from that.

- \* Deprecates the ``com.bettercloud.vault.api.Sys`` class, moving the debug-related methods into their own specific ``com.bettercloud.vault.api.Debug`` class instead.
  - \* Implements some of the lease related endpoints (i.e. `revoke`, `revoke-prefix`, `revoke-force`).
  - \* Supports PKI backends that are mounted on non-default paths.
- 
- \* \*\*1.1.1\*\*\*: Changes the ``ttl`` argument to ``Pki.issue()`` from ``Integer`` to ``String``, to fix a bug preventing you from specifying the time suffix (e.g. "1h").
  - \* \*\*1.1.0\*\*\*: Switches from Vault 0.4.x to 0.5.x for automated tests. Adds support to the Logical API wrapper for listing and deleting secrets. Implements the ``/v1/sys/health`` health-check HTTP API endpoint. Implements portions of the PKI backend (e.g. creating and deleting roles, issuing credentials). Marks numerous methods as deprecated, to be removed in a future major release.
  - \* \*\*1.0.0\*\*\*: Drops support for Java 6. Removes all methods marked as ``@Deprecated`` in version 0.5.0. Adds support for response metadata (i.e. "lease\_id", "renewable", "lease\_duration") to all response types, rather than just ``AuthResponse``. Changes ``leaseDuration`` type from ``int`` to ``Long`` in ``AuthResponse``. Removes ``final`` declarations on all classes (outside of the JSON package). Various bugfixes. Adds support for auth token self-renewal. Adds support for writing values that return content.
  - \* \*\*0.5.0\*\*\*: Adds support for supplying SSL certificates, and for toggling whether or not the Vault server's SSL certificate will be verified. Also adds support for "openTimeout" and "readTimeout" settings. Deprecates the "timeout", "sslTimeout", "proxyAddress", "proxyPort", "proxyUsername", and "proxyPassword" settings (the proxy settings may return in a future version, but it's too misleading to have methods exposed for settings that won't really be supported soon).
  - \* \*\*0.3.0\*\*\*: Initial public release. Support for writing and reading secrets, authenticating with the "AppID" or "Username & Password" auth backends. All over-the-wire methods support automatic retry logic.

## Development

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Pull requests are welcomed for bugfixes or enhancements that do not alter the external facing class and method signatures. For any breaking changes that would alter the contract provided by this driver, please open up an issue to discuss it first.

All code changes should include unit test and/or integration test coverage as appropriate. Unit tests are any that can be run in isolation, with no external dependencies. Integration tests are those which require a Vault server instance (at least a Dev Server) up and running.

Unit tests are located under the ``src/test`` directory, and can be run with the Gradle ``unitTest`` task.

Integration tests are located under the ``src/test-integration`` directory, and can be run with the Gradle ``integrationTest`` task. See the additional ``README.md`` file in this directory for more detailed information.

Although this library now includes a ``module-info`` class for use by Java 9+, the library currently targets Java 8 compatibility. Please do not attempt to introduce any features or syntax not compatible with Java 8 (the Gradle build script should prevent you from doing so without modification).

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Other Notes

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The Vault server system itself is a product of HashiCorp, a completely separate organization.

This client driver adapts JSON parsing code from Ralf Sternberg's excellent [minimal-json](<https://github.com/ralfstx/minimal-json>) library, likewise available under the MIT License. Package names have all been changed, to prevent any conflicts should you happen to be using a different version of that library elsewhere in your project dependencies.

Found in path(s):

\* /opt/cola/permits/1162863465\_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/README.md

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

/\*\*

\* <p>Intended for internal use by other classes within the Vault driver library.</p>

\*

\* <p>JSON parsing functionality. The classes in this package are adapted from Ralf Sternberg's excellent

\* <a href="https://github.com/ralfstx/minimal-json">"minimal-json"</a> library, available under the MIT License.

\* The package names have all been changed, to prevent any conflicts should you happen to be using a different

\* version of this library elsewhere in your project dependencies.</p>

\*/

Found in path(s):

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# 1.16 servicelocator-default-implementation

## 3.0.2

### 1.16.1 Available under license :

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## 1.18 resilience4j 1.7.1

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```
* /opt/cola/permits/1343419717_1655118919.74905/0/micronaut-kafka-4-3-0-1-jar/META-INF/native-image/io.micronaut.kafka/micronaut-kafka/native-image.properties
```

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

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## 1.25 jackson-databind 2.14.0

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# 1.26 jackson-protobuf-support 0.9.9-jackson2.9-proto2

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# 1.27 jackson-integration-for-metrics 4.1.11

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Manifest-Version: 1.0

Build-Jdk-Spec: 1.8

Bundle-Description: A set of Jackson modules which provide serializers for most Metrics classes.

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Bundle-ManifestVersion: 2

Bundle-Name: Jackson Integration for Metrics

Bundle-SymbolicName: io.dropwizard.metrics.json

Bundle-Version: 4.1.11

Created-By: Apache Maven Bundle Plugin

Export-Package: com.codahale.metrics.json;uses:="com.codahale.metrics, com.fasterxml.jackson.core,com.fasterxml.jackson.databind";version="4.1.11"

Implementation-Title: Jackson Integration for Metrics

Implementation-Version: 4.1.11

Import-Package: com.codahale.metrics;version="[4.1,5)",com.codahale.metrics.health;resolution:=optional;version="[4.1,5)",com.fasterxml.jackson.core;version="[2.9,3)",com.fasterxml.jackson.databind;version="[2.9,3)",com.fasterxml.jackson.databind.module;version="[2.9,3)",com.fasterxml.jackson.databind.ser;version="[2.9,3)",com.fasterxml.jackson.databind.ser.std;version="[2.9,3)"

Private-Package: com.codahale.metrics.json

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-5.1.1.202006162103

Found in path(s):

\* /opt/cola/permits/1341130600\_1654854756.362644/0/metrics-json-4-1-11-jar/META-INF/MANIFEST.MF

# 1.28 dropwizard-request-logging-support

## 2.0.12

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## 1.29 metrics-health-checks 4.0.5

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## 1.33 apache-httpcomponents-asyncclient

### 4.1.4

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- \* /opt/cola/permits/1274700542\_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Logger.java
- \* /opt/cola/permits/1274700542\_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/ReflectiveFeign.java
- \* /opt/cola/permits/1274700542\_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Retryer.java

```
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/Feign.java
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/MethodMetadata.java
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```
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/codec/Decoder.java
```

```
* /opt/cola/permits/1274700542_1645235077.45/0/feign-core-8-18-0-sources-jar/feign/codec/Encoder.java
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# 1.44 apache-groovy 4.0.1

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```
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org.codehaus.groovy.jsr223.GroovyScriptEngineFactory
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# 1.45 hk2-api-module 3.0.2

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# 1.46 io-swagger-swagger-annotations 1.6.2

## 1.46.1 Available under license :

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Manifest-Version: 1.0

Bnd-LastModified: 1593602041104

Build-Jdk: 1.8.0\_151

Built-By: frantuma

Bundle-Description: Sonatype helps open source projects to set up Maven repositories on <https://oss.sonatype.org/>

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: swagger-annotations

Bundle-SymbolicName: io.swagger.annotations

Bundle-Version: 1.6.2

Created-By: Apache Maven Bundle Plugin

Export-Package: io.swagger.annotations;version="1.6.2"

implementation-version: 1.6.2

mode: development

package: io.swagger

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"  
Tool: Bnd-3.3.0.201609221906  
url: <https://github.com/swagger-api/swagger-core/modules/swagger-annotations>

Found in path(s):

\* /opt/cola/permits/1170799104\_1654737045.2729578/0/swagger-annotations-1-6-2-jar/META-INF/MANIFEST.MF

# 1.47 jetty-::-jakarta-servlet-api-and-schemas-for-jpms-and-osgi 5.0.2

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- \* <https://github.com/eclipse/jetty.toolchain>

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- \* jakarta.servlet:jakarta.servlet-api

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- \* org.eclipse.jetty.toolchain:jetty-schemas

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## 1.48 metrics-utility-servlets 4.1.11

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Manifest-Version: 1.0

Build-Jdk-Spec: 1.8

Bundle-Description: A set of utility servlets for Metrics, allowing you to expose valuable information about your production environment.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Metrics Utility Servlets

Bundle-SymbolicName: io.dropwizard.metrics.servlets

Bundle-Version: 4.1.11

Created-By: Apache Maven Bundle Plugin

Export-Package: com.codahale.metrics.servlets;uses:="com.codahale.metrics,com.codahale.metrics.health,com.fasterxml.jackson.databind,javax.servlet,javax.servlet.http";version="4.1.11"

Implementation-Title: Metrics Utility Servlets

Implementation-Version: 4.1.11

Import-Package: com.codahale.metrics;version="[4.1,5)",com.codahale.metrics.health;version="[4.1,5)",com.codahale.metrics.json;version="[4.1,5)",com.codahale.metrics.jvm;version="[4.1,5)",com.fasterxml.jackson.databind;version="[2.9,3)",com.fasterxml.jackson.databind.util;version="[2.9,3)",com.papertrail.profiler;version="[1.1,2)",javax.servlet;version="[2.5.0,4.0.0)",javax.servlet.http;version="[2.5.0,4.0.0)"

Private-Package: com.codahale.metrics.servlets

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-5.1.1.202006162103

Found in path(s):

\* /opt/cola/permits/1341130348\_1654769141.865301/0/metrics-servlets-4-1-11-jar/META-INF/MANIFEST.MF

## 1.49 appdynamics-java-agent-api 4.5.13.27526

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\* /opt/cola/permits/1337070300\_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/agent/api/package-tree.html  
\* /opt/cola/permits/1337070300\_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/agent/api/ExitCall.html  
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\* /opt/cola/permits/1337070300\_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/agent/api/impl/NoOpTransaction.html  
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\* /opt/cola/permits/1337070300\_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/instrumentation/sdk/logging/ISDKLogger.html  
\* /opt/cola/permits/1337070300\_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/agent/api/EventPublisher.html  
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\* /opt/cola/permits/1337070300\_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/agent/api/EntryTypes.html  
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\* /opt/cola/permits/1337070300\_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/index-all.html  
\* /opt/cola/permits/1337070300\_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/agent/api/ExitTypes.html  
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\* /opt/cola/permits/1337070300\_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-javadoc-jar/com/appdynamics/agent/api/MetricPublisher.html  
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\* /opt/cola/permits/1337070300\_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-sources-jar/com/appdynamics/agent/api/AppdynamicsAgent.java  
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\* /opt/cola/permits/1337070300\_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-sources-jar/com/appdynamics/agent/api/EventPublisher.java  
\* /opt/cola/permits/1337070300\_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-sources-jar/com/appdynamics/agent/api/MetricPublisher.java  
\* /opt/cola/permits/1337070300\_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-sources-jar/com/appdynamics/agent/api/Transaction.java

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\* /opt/cola/permits/1337070300\_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-sources-jar/com/appdynamics/agent/api/ExitTypes.java  
\* /opt/cola/permits/1337070300\_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-sources-jar/com/appdynamics/agent/api/EntryTypes.java  
\* /opt/cola/permits/1337070300\_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-sources-jar/com/appdynamics/agent/api/bootstrap/IApiBootstrapFacade.java  
\* /opt/cola/permits/1337070300\_1654792344.40951/0/java-agent-api-4-5-13-27526-zip/agent-api-sources-jar/com/appdynamics/agent/api/bootstrap/IApiTransactionDelegate.java

# 1.50 tomcat 10.1.1

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- jakarta\_web-services\_client\_2\_0.xsd
- jsp\_3\_0.xsd
- jsp\_3\_1.xsd
- web-app\_5\_0.xsd
- web-app\_6\_0.xsd
- web-commonn\_5\_0.xsd
- web-commonn\_6\_0.xsd
- web-fragment\_5\_0.xsd
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- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
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- javaee\_5.xsd
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- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd

- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
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- jakarta\_web-services\_client\_2\_0.xsd
- jsp\_3\_0.xsd
- jsp\_3\_1.xsd
- web-app\_5\_0.xsd
- web-app\_6\_0.xsd
- web-commonn\_5\_0.xsd
- web-commonn\_6\_0.xsd
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## 1.51 metrics-integration-with-jmx 4.0.5

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Manifest-Version: 1.0  
Bnd-LastModified: 1545938260836  
Build-Jdk: 1.8.0\_191  
Built-By: artem  
Bundle-Description: A set of classes which allow you to report metrics via JMX.  
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>  
Bundle-ManifestVersion: 2  
Bundle-Name: Metrics Integration with JMX  
Bundle-SymbolicName: io.dropwizard.metrics.jmx  
Bundle-Version: 4.0.5  
Created-By: Apache Maven Bundle Plugin  
Export-Package: com.codahale.metrics.jmx;uses:="com.codahale.metrics,javax.management";version="4.0.5"  
Implementation-Title: Metrics Integration with JMX  
Implementation-URL: <http://metrics.dropwizard.io/metrics-jmx>  
Implementation-Vendor-Id: io.dropwizard.metrics  
Implementation-Version: 4.0.5  
Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.codahale.metrics;version="[4.0,5)",javax.management  
Require-Capability: osgi.ee:filter:="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-3.3.0.201609221906

Found in path(s):

\* /opt/cola/permits/1274704779\_1648835825.49/0/metrics-jmx-4-0-5-jar/META-INF/MANIFEST.MF

## 1.52 feign-jaxrs 8.18.0

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\* /opt/cola/permits/1274698784\_1645233710.69/0/feign-jaxrs-8-18-0-sources-jar/feign/jaxrs/JAXRSContract.java

# 1.53 dropwizard-logging-support 2.0.12

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## 1.54 spock-framework---bill-of-materials 2.1-groovy-3.0

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*/
```

package dsld

```

import org.codehaus.groovy.ast.expr.*

assertVersion(groovyEclipse: "2.7.2") // tested against this version

// with(foo) { /* delegates to foo */ }
// currently only works if foo is statically typed
// with(foo, Bar) { /* delegates to instance of Bar */ }
contribute(
 enclosingClass(subType("spock.lang.Specification")) &
 enclosingCallDeclaringType("spock.lang.Specification") &
 bind(theCalls: enclosingCall(name("with"))) &
 enclosingClosure() {
 def args = theCalls.iterator().next().arguments.expressions
 if (args.size() == 2) {
 delegatesTo(args[0].type)
 } else if (args.size() == 3) {
 if (args[1] instanceof ClassExpression) {
 delegatesTo(args[1])
 }
 }
}

// Mock(Foo) { /* delegates to instance of type Foo */ }
// works for all mock factory methods and all overloads that include a type
contribute(
 enclosingClass(subType("spock.lang.Specification")) &
 enclosingCallDeclaringType("spock.mock.MockingApi") &
 bind(theCalls: enclosingCall(name("Mock") | name("Stub") | name("Spy") | name("GroovyMock") |
name("GroovyStub") | name("GroovySpy")))) &
 enclosingClosure() {
 def args = theCalls.iterator().next().arguments.expressions
 def mockType = args.find { it instanceof ClassExpression }
 if (mockType) {
 delegatesTo(mockType)
 }
}
}

```

Found in path(s):

```
* /opt/cola/permits/1343420207_1655131745.3800905/0/spock-core-2-1-groovy-3-0-jar/dslid/spk.dslid
```

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- \*/

```
package org.spockframework.idea
```

```
import com.intellij.psi.PsiVariable
```

```
// only tested with 11.1, so play it safe and bail out on earlier version
```

```
if (!supportsVersion("11.1")) return
```

```
def ctx = context(ctype: "spock.lang.Specification", scope: closureScope(isArg: true))
```

```
// Mock(Foo) { /* delegates to instance of type Foo */ }
```

```
// Foo x = Mock { /* delegates to instance of type Foo */ }
```

```
contributor(ctx, {
```

```
 def call = enclosingCall("Mock") ?: enclosingCall("Stub") ?: enclosingCall("Spy") ?:
```

```
 enclosingCall("GroovyMock") ?: enclosingCall("GroovyStub") ?: enclosingCall("GroovySpy")
```

```
 if (call) {
```

```
 def method = call.bind()
```

```
 def clazz = method?.containingClass
```

```
 if (clazz?.qualifiedName == "spock.mock.MockingApi") {
```

```
 def mockType = call.arguments.find { it.type?.className == "Class" }
```

```
 if (mockType) {
```

```
 def typeParameter = mockType.type.parameters[0]
```

```
 delegatesTo(typeParameter.resolve())
```

```
 return
```

```
 }
```

```
 def callContext = call.context
```

```
 if (callContext instanceof PsiVariable) {
```

```
 delegatesTo(callContext.typeGroovy.resolve())
```

```
 }
```

```
 }
```

```
}
```

```
})
```

```
Found in path(s):
```

```
* /opt/cola/permits/1343420207_1655131745.3800905/0/spock-core-2-1-groovy-3-0-
jar/org/spockframework/idea/spock.gdsl
```

## 1.55 micronaut-r2dbc 3.0.0

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mcr.microsoft.com/mssql/server:2017-CU12

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## 1.56 maven-default-project 4.1.2

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```
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```

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```
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```

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signature of Ty Coon, 1 April 1989
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## 1.59 kafka-protobuf-provider 5.5.5

### 1.59.1 Available under license :

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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>
```

```
<parent>
 <groupId>io.confluent</groupId>
 <artifactId>kafka-schema-registry-parent</artifactId>
 <version>5.5.5</version>
</parent>

<licenses>
 <license>
 <name>Confluent Community License</name>
 <url>http://www.confluent.io/confluent-community-license</url>
 <distribution>repo</distribution>
 </license>
 <license>
 <name>Apache License 2.0</name>
 <url>http://www.apache.org/licenses/LICENSE-2.0.html</url>
 <distribution>repo</distribution>
 </license>
</licenses>

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 <groupId>org.mockito</groupId>
 <artifactId>mockito-core</artifactId>
 <scope>test</scope>
 </dependency>
</dependencies>
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 <groupId>junit</groupId>
 <artifactId>junit</artifactId>
 <scope>test</scope>
</dependency>
</dependencies>

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 <plugin>
 <groupId>com.github.os72</groupId>
 <artifactId>protoc-jar-maven-plugin</artifactId>
 </plugin>
 </plugins>
</build>
</project>
```

Found in path(s):

\* /opt/cola/permits/1340031662\_1654757729.7702703/0/kafka-protobuf-provider-5-5-5-jar/META-INF/maven/io.confluent/kafka-protobuf-provider/pom.xml

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# 1.61 apache-commons-cli 1.4

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# 1.62 deployment-related-common-classes

## 6.2.4

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# 1.66 javassist 3.27.0

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## 1.67 maven-default-project 4.1.2

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## 1.68 metrics-integration-for-apache-httpasyncclient 4.0.5

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

Manifest-Version: 1.0

Bnd-LastModified: 1545937994519

Build-Jdk: 1.8.0\_191

Built-By: artem

Bundle-Description: An Apache HttpAsyncClient wrapper providing Metrics instrumentation of connection pools, request durations and rates, and other useful information.

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Metrics Integration for Apache HttpAsyncClient

Bundle-SymbolicName: io.dropwizard.metrics.httpasyncclient

Bundle-Version: 4.0.5

Created-By: Apache Maven Bundle Plugin

Export-Package: com.codahale.metrics.httpasyncclient;uses:="com.codahale.metrics,com.codahale.metrics.httpclient,org.apache.http.config,org.apache.http.conn,org.apache.http.impl.nio.client,org.apache.http.impl.nio.conn,org.apache.http.nio.conn,org.apache.http.nio.reactor";version="4.0.5"

Implementation-Title: Metrics Integration for Apache HttpAsyncClient

Implementation-URL: <http://metrics.dropwizard.io/metrics-htpasyncclient>  
Implementation-Vendor-Id: io.dropwizard.metrics  
Implementation-Version: 4.0.5  
Import-Package: com.codahale.metrics;version="[4.0,5)",com.codahale.metrics.httpclient;version="[4.0,5)",org.apache.http,org.apache.http.concurrent,org.apache.http.config,org.apache.http.conn,org.apache.http.impl.nio.client,org.apache.http.impl.nio.conn,org.apache.http.nio.conn,org.apache.http.nio.protocol,org.apache.http.nio.reactor,org.apache.http.pool,org.apache.http.protocol  
Require-Capability: osgi.ee:filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-3.3.0.201609221906

Found in path(s):

\* /opt/cola/permits/1340031649\_1654689479.4970224/0/metrics-htpasyncclient-4-0-5-jar/META-INF/MANIFEST.MF

## 1.69 jakarta-ws-rs-api 3.1.0

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jar/commonMain/okio/SegmentedByteString.kt
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Found in path(s):

\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/ByteString.kt

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Found in path(s):

- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/-DeprecatedUpgrade.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/-DeprecatedUtf8.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/PeekSource.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/-DeprecatedOkio.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/Throttler.kt

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- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/-Base64.kt

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- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/HashingSink.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/Pipe.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/HashingSource.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/Options.kt

## 1.76 micronaut-azure 3.2.3

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# 1.77 micronaut-kotlin-integrations 3.2.2

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Found in path(s):

\* /opt/cola/permits/1331473908\_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-jar/io/micronaut/ktor/KtorApplicationBuilder.kt  
\* /opt/cola/permits/1331473908\_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-jar/io/micronaut/ktor/KtorApplication.kt  
\* /opt/cola/permits/1331473908\_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-jar/io/micronaut/ktor/server/AbstractKtorEmbeddedServer.kt  
\* /opt/cola/permits/1331473908\_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-jar/io/micronaut/ktor/KtorRoutingBuilder.kt  
\* /opt/cola/permits/1331473908\_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-jar/io/micronaut/ktor/server/KtorTomcatEmbeddedServer.kt  
\* /opt/cola/permits/1331473908\_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-jar/io/micronaut/ktor/env/MicronautKtorEnvironmentConfig.kt  
\* /opt/cola/permits/1331473908\_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-jar/io/micronaut/ktor/server/KtorNettyEmbeddedServer.kt  
\* /opt/cola/permits/1331473908\_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-jar/io/micronaut/ktor/factory/MicronautKtorApplicationFactory.kt  
\* /opt/cola/permits/1331473908\_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-jar/io/micronaut/ktor/server/KtorJettyEmbeddedServer.kt

## 1.78 archaius-core 0.4.1

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\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/jmx/ConfigMBean.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/ConfigurationBackedDynamicPropertySupportImpl.java

\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/ConfigurationManager.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/DynamicStringProperty.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/DynamicBooleanProperty.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/FixedDelayPollingScheduler.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/jmx/ConfigJMXManager.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/util/ConfigurationUtils.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/PollListener.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/DynamicIntProperty.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/PropertyListener.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/ConfigurationBasedDeploymentContext.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/DynamicFloatProperty.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/AbstractDynamicPropertyListener.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/PropertyWrapper.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/samples/SampleApplication.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/samples/SampleApplicationWithDefaultConfiguration.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/ConfigurationWithPollingSource.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/AbstractPollingScheduler.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/sources/URLConfigurationSource.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/DynamicConfiguration.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/DynamicLongProperty.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/ConcurrentCompositeConfiguration.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/ConcurrentMapConfiguration.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/PollResult.java  
\* /opt/cola/permits/1473577639\_1668493634.8446913/0/archaius-core-0-4-1-sources-2-jar/com/netflix/config/DynamicDoubleProperty.java

```
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/DynamicPropertyFactory.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/ClasspathPropertiesConfiguration.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/DynamicURLConfiguration.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/ExpandedConfigurationListenerAdapter.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/WebApplicationProperties.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/AggregatedConfiguration.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/DynamicProperty.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/jmx/BaseConfigMBean.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/SimpleDeploymentContext.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/MissingConfigurationSourceException.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/DeploymentContext.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/DynamicPropertySupport.java
* /opt/cola/permits/1473577639_1668493634.8446913/0/archaius-core-0-4-1-sources-2-
jar/com/netflix/config/PolledConfigurationSource.java
```

## 1.79 feign-httpclient 8.18.0

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```

Found in path(s):

\* /opt/cola/permits/1274702072\_1645234420.76/0/feign-httpclient-8-18-0-sources-jar/feign/httpclient/ApacheHttpClient.java

# 1.80 asm-based-accessors-helper-used-by-json-smart 2.4.8

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\* /opt/cola/permits/1340076313\_1654762627.85568/0/accessors-smart-2-4-8-jar/META-INF/maven/net.minidev/accessors-smart/pom.xml

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Manifest-Version: 1.0

Bnd-LastModified: 1644737816481

Build-Jdk: 11.0.14

Built-By: uriel

Bundle-Description: Java reflect give poor performance on getter setter and constructor calls, accessors-smart use ASM to speed up those calls.

Bundle-DocURL: <https://urielch.github.io/>

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

Bundle-ManifestVersion: 2

Bundle-Name: accessors-smart

Bundle-SymbolicName: net.minidev.accessors-smart

Bundle-Vendor: Chemouni Uriel

Bundle-Version: 2.4.8

Created-By: Apache Maven Bundle Plugin

Export-Package: net.minidev.asm;uses:="org.objectweb.asm";version="2.4.8",net.minidev.asm.ex;version="2.4.8"

Import-Package: org.objectweb.asm;version="[8.0,10)",net.minidev.asm.ex

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-5.1.1.202006162103

Found in path(s):

\* /opt/cola/permits/1340076313\_1654762627.85568/0/accessors-smart-2-4-8-jar/META-INF/MANIFEST.MF

# 1.81 jackson-module-parameter-names 2.14.0

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- \* /opt/cola/permits/1473601501\_1668802716.351228/0/jackson-module-parameter-names-2-14-0-javadoc-jar/com/fasterxml/jackson/module/paramnames/class-use/PackageVersion.html
- \* /opt/cola/permits/1473601501\_1668802716.351228/0/jackson-module-parameter-names-2-14-0-javadoc-jar/serialized-form.html
- \* /opt/cola/permits/1473601501\_1668802716.351228/0/jackson-module-parameter-names-2-14-0-javadoc-jar/overview-tree.html
- \* /opt/cola/permits/1473601501\_1668802716.351228/0/jackson-module-parameter-names-2-14-0-javadoc-jar/com/fasterxml/jackson/module/paramnames/package-summary.html
- \* /opt/cola/permits/1473601501\_1668802716.351228/0/jackson-module-parameter-names-2-14-0-javadoc-jar/com/fasterxml/jackson/module/paramnames/class-use/ParameterNamesAnnotationIntrospector.html
- \* /opt/cola/permits/1473601501\_1668802716.351228/0/jackson-module-parameter-names-2-14-0-javadoc-jar/com/fasterxml/jackson/module/paramnames/package-tree.html
- \* /opt/cola/permits/1473601501\_1668802716.351228/0/jackson-module-parameter-names-2-14-0-javadoc-jar/com/fasterxml/jackson/module/paramnames/package-use.html
- \* /opt/cola/permits/1473601501\_1668802716.351228/0/jackson-module-parameter-names-2-14-0-javadoc-jar/deprecated-list.html
- \* /opt/cola/permits/1473601501\_1668802716.351228/0/jackson-module-parameter-names-2-14-0-javadoc-jar/com/fasterxml/jackson/module/paramnames/ParameterNamesAnnotationIntrospector.html
- \* /opt/cola/permits/1473601501\_1668802716.351228/0/jackson-module-parameter-names-2-14-0-javadoc-jar/constant-values.html
- \* /opt/cola/permits/1473601501\_1668802716.351228/0/jackson-module-parameter-names-2-14-0-javadoc-jar/com/fasterxml/jackson/module/paramnames/class-use/ParameterNamesModule.html
- \* /opt/cola/permits/1473601501\_1668802716.351228/0/jackson-module-parameter-names-2-14-0-javadoc-jar/help-doc.html
- \* /opt/cola/permits/1473601501\_1668802716.351228/0/jackson-module-parameter-names-2-14-0-javadoc-jar/index-all.html
- \* /opt/cola/permits/1473601501\_1668802716.351228/0/jackson-module-parameter-names-2-14-0-javadoc-jar/com/fasterxml/jackson/module/paramnames/PackageVersion.html
- \* /opt/cola/permits/1473601501\_1668802716.351228/0/jackson-module-parameter-names-2-14-0-javadoc-jar/com/fasterxml/jackson/module/paramnames/ParameterNamesModule.html

# 1.82 wire-schema 3.6.0

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\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-jar/commonMain/com/squareup/wire/schema/internal/parser/FieldElement.kt  
\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-jar/commonMain/com/squareup/wire/schema/internal/parser/OneOfElement.kt  
\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-jar/commonMain/com/squareup/wire/schema/internal/parser/EnumConstantElement.kt  
\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-jar/commonMain/com/squareup/wire/schema/internal/parser/RpcElement.kt

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\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-jar/jvmMain/com/squareup/wire/schema/internal/UtilJVM.kt  
\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-jar/commonMain/com/squareup/wire/schema/FileLinker.kt  
\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-jar/jvmMain/com/squareup/wire/schema/CoreLoader.kt  
\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-jar/commonMain/com/squareup/wire/schema/SemVer.kt

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\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-

jar/commonMain/com/squareup/wire/schema/EnclosingType.kt  
\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-  
jar/commonMain/com/squareup/wire/schema/Reserved.kt  
\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-  
jar/commonMain/com/squareup/wire/schema/internal/parser/ReservedElement.kt  
\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-  
jar/commonMain/com/squareup/wire/schema/internal/parser/GroupElement.kt  
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\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-  
jar/commonMain/com/squareup/wire/schema/internal/parser/ServiceElement.kt  
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jar/commonMain/com/squareup/wire/schema/internal/parser/ProtoParser.kt  
\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-  
jar/commonMain/com/squareup/wire/schema/internal/parser/ProtoFileElement.kt  
\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-  
jar/commonMain/com/squareup/wire/schema/internal/parser/TypeElement.kt  
\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-  
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\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-  
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\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-  
jar/commonMain/com/squareup/wire/schema/internal/Util.kt  
\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-  
jar/commonMain/com/squareup/wire/schema/internal/parser/OptionElement.kt  
\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-  
jar/commonMain/com/squareup/wire/schema/internal/parser/MessageElement.kt  
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jar/commonMain/com/squareup/wire/schema/MessageType.kt
* /opt/cola/permits/1340031715_1654618469.2355554/0/wire-schema-3-6-0-sources-1-
jar/commonMain/com/squareup/wire/schema/MarkSet.kt
* /opt/cola/permits/1340031715_1654618469.2355554/0/wire-schema-3-6-0-sources-1-
jar/commonMain/com/squareup/wire/schema/PruningRules.kt
* /opt/cola/permits/1340031715_1654618469.2355554/0/wire-schema-3-6-0-sources-1-
jar/commonMain/com/squareup/wire/schema/ProtoMember.kt
* /opt/cola/permits/1340031715_1654618469.2355554/0/wire-schema-3-6-0-sources-1-
jar/commonMain/com/squareup/wire/schema/Rpc.kt
* /opt/cola/permits/1340031715_1654618469.2355554/0/wire-schema-3-6-0-sources-1-
jar/commonMain/com/squareup/wire/schema/OneOf.kt
* /opt/cola/permits/1340031715_1654618469.2355554/0/wire-schema-3-6-0-sources-1-
jar/commonMain/com/squareup/wire/schema/Pruner.kt
* /opt/cola/permits/1340031715_1654618469.2355554/0/wire-schema-3-6-0-sources-1-
jar/commonMain/com/squareup/wire/schema/Extend.kt
* /opt/cola/permits/1340031715_1654618469.2355554/0/wire-schema-3-6-0-sources-1-
jar/commonMain/com/squareup/wire/schema/Options.kt
* /opt/cola/permits/1340031715_1654618469.2355554/0/wire-schema-3-6-0-sources-1-
jar/commonMain/com/squareup/wire/schema/ProtoType.kt
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jar/commonMain/com/squareup/wire/schema/EnumType.kt
* /opt/cola/permits/1340031715_1654618469.2355554/0/wire-schema-3-6-0-sources-1-
jar/commonMain/com/squareup/wire/schema/EnumConstant.kt
* /opt/cola/permits/1340031715_1654618469.2355554/0/wire-schema-3-6-0-sources-1-
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* /opt/cola/permits/1340031715_1654618469.2355554/0/wire-schema-3-6-0-sources-1-
jar/commonMain/com/squareup/wire/schema/ProtoFile.kt
* /opt/cola/permits/1340031715_1654618469.2355554/0/wire-schema-3-6-0-sources-1-
```

jar/commonMain/com/squareup/wire/schema/Extensions.kt  
\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-  
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\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-  
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\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-  
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\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-  
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\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-  
jar/commonMain/com/squareup/wire/schema/SchemaProtoAdapterFactory.kt  
\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-  
jar/commonMain/com/squareup/wire/schema/Type.kt  
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jar/jvmMain/com/squareup/wire/schema/EmittingRules.kt  
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\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-  
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\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-  
jar/commonMain/com/squareup/wire/schema/SyntaxRules.kt  
\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-  
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jar/jvmMain/com/squareup/wire/schema/internal/JvmLanguages.kt

\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-jar/commonMain/com/squareup/wire/schema/internal/DagChecker.kt  
\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-jar/commonMain/com/squareup/wire/schema/internal/TypeMover.kt  
\* /opt/cola/permits/1340031715\_1654618469.2355554/0/wire-schema-3-6-0-sources-1-jar/commonMain/com/squareup/wire/schema/CycleChecker.kt

## 1.83 hk2-core-module 3.0.2

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## 0.12.0

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## io.opentelemetry:opentelemetry-sdk-metrics

### 1.9.1-alpha

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Bnd-LastModified: 1545937890888  
Build-Jdk: 1.8.0\_191  
Built-By: artem  
Bundle-Description: A set of classes which allow you to monitor critical aspects of your Java Virtual Machine using Metrics.  
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Bundle-ManifestVersion: 2  
Bundle-Name: JVM Integration for Metrics  
Bundle-SymbolicName: io.dropwizard.metrics.jvm  
Bundle-Version: 4.0.5  
Created-By: Apache Maven Bundle Plugin  
Export-Package: com.codahale.metrics.jvm;uses:="com.codahale.metrics,javax.management";version="4.0.5"  
Implementation-Title: JVM Integration for Metrics  
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Import-Package: org.slf4j;version="[1.6.0,2.0.0)",com.sun.management;resolution:=optional,com.codahale.metrics;version="[4.0,5)",javax.management  
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-3.3.0.201609221906

Found in path(s):

\* /opt/cola/permits/1274701574\_1648835908.24/0/metrics-jvm-4-0-5-jar/META-INF/MANIFEST.MF

# 1.90 micronaut-picocli-configuration 4.2.1

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# 1.91 hk2-config-types 6.2.4

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- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-

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* /opt/cola/permits/1331473843_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-
jar/io/micronaut/tracing/instrument/http/TraceRequestAttributes.java
* /opt/cola/permits/1331473843_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-
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* /opt/cola/permits/1331473843_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-
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* /opt/cola/permits/1331473843_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-
jar/io/micronaut/tracing/instrument/util/ScopePropagationPublisher.java
* /opt/cola/permits/1331473843_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-
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* /opt/cola/permits/1331473843_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-
jar/io/micronaut/tracing/instrument/http/package-info.java
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jar/io/micronaut/tracing/instrument/util/ThreadTracingInvocationInstrumenterFactory.java
* /opt/cola/permits/1331473843_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-
jar/io/micronaut/tracing/annotation/ContinueSpan.java
* /opt/cola/permits/1331473843_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-
jar/io/micronaut/tracing/DefaultTracer.java
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# 1.97 jackson-datatype-jdk8 2.14.0

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```

# 1.101 guava-internalfuturefailureaccess-and-internalfutures 1.0.1

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 */
```

Found in path(s):

```
* /opt/cola/permits/1130987386_1612872111.26/0/failureaccess-1-0-1-sources-
jar/com/google/common/util/concurrent/internal/InternalFutureFailureAccess.java
* /opt/cola/permits/1130987386_1612872111.26/0/failureaccess-1-0-1-sources-
jar/com/google/common/util/concurrent/internal/InternalFutures.java
```

# 1.102 junit-jupiter-junit-jupiter-api 5.3.1

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## 1.103 netty/transport/classes/epoll

### 4.1.84.Final

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Manifest-Version: 1.0

Implementation-Title: Netty/Codec/HTTP

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.codec.http

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.codec-http

Implementation-Version: 4.1.84.Final

Built-By: chris

Bnd-LastModified: 1665536154725

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: com.aayushatharva.brotli4j.encoder;resolution:=optional,com.jcraft.jzlib;resolution:=optional,io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.embedded;version="[4.1,5)",io.netty.handler.codec,io.netty.handler.codec.base64;version="[4.1,5)",io.netty.handler.codec.compression;version="[4.1,5)",io.netty.handler.ssl;version="[4.1,5)",io.netty.handler.stream;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-2.4.1.201501161923

Implementation-Vendor: The Netty Project

Export-Package: io.netty.handler.codec.http;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.embedded,io.netty.handler.codec,io.netty.handler.codec.compression,io.netty.handler.codec.http.cookie,io.netty.handler.stream,io.netty.util";version="4.1.84",io.netty.handler.codec.http.cookie;version="4.1.84",io.netty.handler.codec.http.cors;uses:="io.netty.channel,io.netty.handler.codec.http";version="4.1.84",io.netty.handler.codec.http.multipart;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http,io.netty.handler.stream,io.netty.util";version="4.1.84",io.netty.handler.codec.http.websocketx;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http,io.netty.handler.stream,io.netty.util,io.netty.util.internal.logging";version="4.1.84",io.netty.handler.codec.http.websocketx.extensions;uses:="io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http.websocketx";version="4.1.84",io.netty.handler.codec.http.websocketx.extensions.compression;uses:="io.netty.channel,io.netty.handler.codec.http.websocketx.extensions";version="4.1.84",io.netty.handler.codec.rtsp;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec.http,io.netty.util";version="4.1.84",io.netty.handler.codec.spdy;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http,io.netty.util";version="4.1.84"

Bundle-Name: Netty/Codec/HTTP

Bundle-Version: 4.1.84.Final

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_312

Implementation-URL: <https://netty.io/netty-codec-http/>

Found in path(s):

\* /opt/cola/permits/1470280885\_1668115952.2421944/0/netty-codec-http-4-1-84-final-jar/META-INF/MANIFEST.MF

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\* /opt/cola/permits/1470280885\_1668115952.2421944/0/netty-codec-http-4-1-84-final-jar/META-INF/maven/io.netty/netty-codec-http/pom.xml

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## 1.104 log4j-over-slf4j 1.7.30

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1088524438\_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/META-INF/maven/org.slf4j/log4j-over-slf4j/pom.xml

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\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1088524438\_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/helpers/NullEnumeration.java

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 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-
jar/org/apache/log4j/spi/Configurator.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-
jar/org/apache/log4j/spi/LoggerFactory.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-
jar/org/apache/log4j/NDC.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-
jar/org/apache/log4j/Appender.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-
jar/org/apache/log4j/BasicConfigurator.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-
jar/org/apache/log4j/ConsoleAppender.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-
jar/org/apache/log4j/spi/LoggerRepository.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-
jar/org/apache/log4j/Layout.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-
jar/org/apache/log4j/WriterAppender.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-
jar/org/apache/log4j/xml/DOMConfigurator.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-
jar/org/apache/log4j/SimpleLayout.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-
jar/org/apache/log4j/spi/LoggingEvent.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-
jar/org/apache/log4j/RollingFileAppender.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-
jar/org/apache/log4j/spi/HierarchyEventListener.java
* /opt/ws_local/PERMITS_SQL/1088524438_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-
```

jar/org/apache/log4j/PatternLayout.java  
\* /opt/ws\_local/PERMITS\_SQL/1088524438\_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/Logger.java  
\* /opt/ws\_local/PERMITS\_SQL/1088524438\_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/Level.java  
\* /opt/ws\_local/PERMITS\_SQL/1088524438\_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/Category.java  
\* /opt/ws\_local/PERMITS\_SQL/1088524438\_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/Priority.java  
\* /opt/ws\_local/PERMITS\_SQL/1088524438\_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/spi/ErrorHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1088524438\_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/spi/OptionHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1088524438\_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/FileAppender.java  
\* /opt/ws\_local/PERMITS\_SQL/1088524438\_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/LogManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1088524438\_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/AppenderSkeleton.java  
\* /opt/ws\_local/PERMITS\_SQL/1088524438\_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/helpers/LogLog.java  
\* /opt/ws\_local/PERMITS\_SQL/1088524438\_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/PropertyConfigurator.java  
\* /opt/ws\_local/PERMITS\_SQL/1088524438\_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/Log4jLoggerFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1088524438\_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/MDC.java  
\* /opt/ws\_local/PERMITS\_SQL/1088524438\_1599802440.27/0/log4j-over-slf4j-1-7-30-sources-1-jar/org/apache/log4j/spi/Filter.java

## 1.105 javax-inject1-as-osgi-bundle 2.6.1

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- \* <https://github.com/eclipse-ee4j/glassfish-hk2>
- \* <https://github.com/eclipse-ee4j/glassfish-fighterfish>

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# 1.106 junit-platform-junit-platform-commons

## 1.8.2

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## 1.107 protocol-buffer-java-util-package 3.20.1

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\* /opt/cola/permits/1427929573\_1664346243.9376018/0/protobuf-java-util-3-20-1-sources-jar/com/google/protobuf/util/FieldMaskUtil.java  
\* /opt/cola/permits/1427929573\_1664346243.9376018/0/protobuf-java-util-3-20-1-sources-jar/com/google/protobuf/util/Structs.java  
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\* /opt/cola/permits/1427929573\_1664346243.9376018/0/protobuf-java-util-3-20-1-sources-jar/com/google/protobuf/util/FieldMaskTree.java  
\* /opt/cola/permits/1427929573\_1664346243.9376018/0/protobuf-java-util-3-20-1-sources-jar/com/google/protobuf/util/JsonFormat.java

# 1.108 com.helger:profiler 1.1.1

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Manifest-Version: 1.0  
Automatic-Module-Name: com.papertrail.profiler  
Bnd-LastModified: 1563722217801  
Build-Jdk: 1.8.0\_202  
Built-By: philip  
Bundle-Description: A pure-java implementation of the twitter/util project's `CpuProfile` and related classes.  
Bundle-DocURL: <http://www.helger.com>  
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>  
Bundle-ManifestVersion: 2  
Bundle-Name: com.helger:profiler  
Bundle-SymbolicName: com.helger.profiler  
Bundle-Vendor: Philip Helger  
Bundle-Version: 1.1.1  
Created-By: Apache Maven Bundle Plugin  
Export-Package: com.papertrail.profiler;version="1.1.1",com.papertrail.profiler.jaxrs;uses:="javax.ws.rs";version="1.1.1"  
Implementation-Title: com.helger:profiler  
Implementation-URL: <https://github.com/phax/profiler>

Implementation-Vendor: Philip Helger  
Implementation-Vendor-Id: com.helger  
Implementation-Version: 1.1.1  
Import-Package: com.papertrail.profiler.javax.ws.rs;version="[2.1,3)"  
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-4.1.0.201810181252

Found in path(s):

\* /opt/cola/permits/1293853635\_1649177431.36/0/profiler-1-1-1-jar/META-INF/MANIFEST.MF

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# 1.110 jackson-module:-guice 2.14.0

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# 1.111 hdrhistogram 2.1.12

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Manifest-Version: 1.0

Bnd-LastModified: 1575980548657

Build-Jdk: 1.8.0\_232

Built-By: gil

Bundle-Description: HdrHistogram supports the recording and analyzing sampled data value counts across a configurable integer value range with configurable value precision within the range. Value precision is expressed as the number of significant digits in the value recording, and provides control over value quantization behavior across the value range and the subsequent value resolution at any given level.

Bundle-License: <http://creativecommons.org/publicdomain/zero/1.0/>, <https://opensource.org/licenses/BSD-2-Clause>

Bundle-ManifestVersion: 2

Bundle-Name: HdrHistogram

Bundle-SymbolicName: org.hdrhistogram.HdrHistogram

Bundle-Version: 2.1.12

Created-By: Apache Maven Bundle Plugin

Export-Package: org.HdrHistogram;version="2.1.12",org.HdrHistogram.packagedarray;version="2.1.12"

Implementation-Title: HdrHistogram

Implementation-Vendor-Id: org.hdrhistogram

Implementation-Version: 2.1.12

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"

Specification-Title: HdrHistogram

Specification-Version: 2.1.12

Tool: Bnd-2.3.0.201405100607

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# 1.112 micronaut-coherence 3.4.1

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```

io.micronaut.coherence.grpc.GrpcServerConfigurer\$GrpcServerConfigurationBean

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- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/messaging/package-info.java
- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/InjectorImpl.java
- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/config/MicronautSystemPropertyResolver.java
- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/namespace/BeanBuilder.java
- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/CoherenceContext.java
- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/SessionConfigurationProvider.java
- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/package-info.java
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- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/JsonSerializerFactory.java
- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/namespace/BeanProcessor.java
- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/AbstractSessionConfigurationBean.java
- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/grpc/GrpcServerConfigurer.java
- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/grpc/package-info.java
- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/SessionType.java
- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/namespace/package-info.java
- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/messaging/TopicKey.java
- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/messaging/SubscriberExecutorServiceConfig.java
- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/grpc/GrpcServerBuilder.java

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\* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/config/CoherenceDefaultProperties.java  
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io.micronaut.coherence.config.MicronautSystemPropertyResolver

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io.micronaut.coherence.InjectorImpl

Found in path(s):

```
* /opt/cola/permits/1343419941_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/META-INF/services/com.oracle.coherence.inject.Injector
```

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#
```

io.micronaut.coherence.grpc.GrpcServerBuilder\$GrpcServerBuilderProviderBean

Found in path(s):

```
* /opt/cola/permits/1343419941_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/META-INF/services/com.oracle.coherence.grpc.proxy.GrpcServerBuilderProvider
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- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/annotation/AbstractNamedLiteral.java
- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/messaging/CoherencePublisherIntroductionAdvice.java
- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/event/AnnotatedMapListener.java
- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/annotation/AbstractArrayLiteral.java
- \* /opt/cola/permits/1343419941\_1655118743.8550127/0/micronaut-coherence-3-4-1-sources-jar/io/micronaut/coherence/FactoryQualifier.java

## 1.113 json-smart 2.4.8

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Found in path(s):

- \* /opt/cola/permits/1340076263\_1654622360.233129/0/json-smart-2-4-8-2-jar/META-INF/maven/net.minidev/json-smart/pom.xml

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Manifest-Version: 1.0

Bnd-LastModified: 1644737862078

Build-Jdk: 11.0.14

Built-By: uriel

Bundle-Description: JSON (JavaScript Object Notation) is a lightweight data-interchange format. It is easy for humans to read and write. It is easy for machines to parse and generate. It is based on a subset of the JavaScript Programming Language, Standard ECMA-262 3rd Edition - December 1999. JSON is a text format that is completely language independent but uses conventions that are familiar to programmers of the C-family of languages, including C, C++, C#, Java, JavaScript, Per

l, Python, and many others. These properties make JSON an ideal data-interchange language.

Bundle-DocURL: <https://urielch.github.io/>

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

Bundle-ManifestVersion: 2

Bundle-Name: json-smart

Bundle-SymbolicName: net.minidev.json-smart

Bundle-Vendor: Chemouni Uriel

Bundle-Version: 2.4.8

Created-By: Apache Maven Bundle Plugin

Export-Package: net.minidev.json;uses:="net.minidev.asm,net.minidev.json.parser,net.minidev.json.reader,net.minidev.json.writer";version="2.4.8",net.minidev.json.annotate;version="2.4.8",net.minidev.json.parser;uses:="net.minidev.json.writer";version="2.4.8",net.minidev.json.reader;uses:="net.minidev.json";version="2.4.8",net.minidev.json.writer;uses:="net.minidev.json,net.minidev.json.parser";version="2.4.8"

Import-Package: net.minidev.asm;version="[2.4,3)",net.minidev.json,net.minidev.json.annotate,net.minidev.json.parser,net.minidev.json.reader,net.minidev.json.writer

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-5.1.1.202006162103

Found in path(s):

\* /opt/cola/permits/1340076263\_1654622360.233129/0/json-smart-2-4-8-2-jar/META-INF/MANIFEST.MF

## 1.114 jersey-container-servlet 2.31

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# 1.119 jersey-core-server 2.28

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# 1.128 kqueue 4.1.77.Final

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```
* /opt/cola/permits/1337097908_1654121278.2627714/0/netty-transport-native-kqueue-4-1-77-final-sources-
jar/META-INF/maven/io.netty/netty-transport-native-kqueue/pom.xml
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\* /opt/cola/permits/1337097908\_1654121278.2627714/0/netty-transport-native-kqueue-4-1-77-final-sources-jar/netty\_kqueue\_eventarray.h  
\* /opt/cola/permits/1337097908\_1654121278.2627714/0/netty-transport-native-kqueue-4-1-77-final-sources-jar/netty\_kqueue\_bsdsocket.c  
\* /opt/cola/permits/1337097908\_1654121278.2627714/0/netty-transport-native-kqueue-4-1-77-final-sources-jar/netty\_kqueue\_native.c  
\* /opt/cola/permits/1337097908\_1654121278.2627714/0/netty-transport-native-kqueue-4-1-77-final-sources-jar/netty\_kqueue\_bsdsocket.h  
\* /opt/cola/permits/1337097908\_1654121278.2627714/0/netty-transport-native-kqueue-4-1-77-final-sources-jar/netty\_kqueue\_eventarray.c

## 1.129 guava 31.1-jre

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/SortedMultisets.java

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jar/com/google/common/base/Strings.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/Ascii.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/primitives/package-info.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/annotations/Beta.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/net/package-info.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/ContiguousSet.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/SortedLists.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/ListeningExecutorService.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/Equivalence.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/Atomics.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/Monitor.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/annotations/package-info.java  
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jar/com/google/common/hash/Fingerprint2011.java  
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*/
/**
 * Not supported. You are attempting to create a map that may contain a non-{@code Comparable}
 * key. Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 *
 * @throws UnsupportedOperationException always
 * @deprecated Pass a key of type {@code Comparable} to use {@link
 * ImmutableSortedMap#of(Comparable, Object)}.
 */
```

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```
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/math/ToDoubleRounder.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
```

jar/com/google/common/hash/Java8Compatibility.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/math/BigDecimalMath.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/Java8Compatibility.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/Java8Compatibility.java  
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jar/com/google/common/base/Utf8.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/CharSequenceReader.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java  
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jar/com/google/common/reflect/TypeVisitor.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/FilteredMultimapValues.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/AbstractTable.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/VerifyException.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/eventbus/SubscriberExceptionHandler.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/eventbus/SubscriberExceptionContext.java  
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jar/com/google/common/base/Verify.java

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jar/com/google/common/hash/HashingInputStream.java

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jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/escape/CharEscaper.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/FluentFuture.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/CollectionFuture.java
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jar/com/google/common/escape/CharEscaperBuilder.java
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/FuturesGetChecked.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/Futures.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/io/PatternFilenameFilter.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ForwardingSortedSetMultimap.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ForwardingImmutableCollection.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/RowSortedTable.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ForwardingSetMultimap.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/AbstractSequentialIterator.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/UnmodifiableListIterator.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-

jar/com/google/common/collect/ForwardingListMultimap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/MinMaxPriorityQueue.java  
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jar/com/google/common/collect/ImmutableSortedAsList.java  
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jar/com/google/common/collect/MultimapBuilder.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/MoreFiles.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/ImmutableMapEntry.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
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```

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```
*/
 * /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
 * jar/com/google/common/base/SmallCharMatcher.java
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```
*/
 * /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
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jar/com/google/common/collect/Streams.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/ParametricNullness.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/ParametricNullness.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/eventbus/ParametricNullness.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/math/ElementTypesAreNonnullByDefault.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/xml/ParametricNullness.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/eventbus/ElementTypesAreNonnullByDefault.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/reflect/ElementTypesAreNonnullByDefault.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/ParametricNullness.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/io/ParametricNullness.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/primitives/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/graph/ParametricNullness.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/math/ParametricNullness.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/net/ParametricNullness.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/io/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/graph/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ParametricNullness.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/escape/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/xml/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/reflect/ParametricNullness.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/html/ParametricNullness.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/ElementTypesAreNonnullByDefault.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/ParametricNullness.java

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- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/FluentIterable.java
- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/Joiner.java
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- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/primitives/Floats.java
- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/thirdparty/publicsuffix/TrieParser.java
- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/CharMatcher.java
- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/ListenableFutureTask.java
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- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/primitives/Longs.java
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- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/primitives/Chars.java
- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/escape/UnicodeEscaper.java
- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/io/FileBackedOutputStream.java
- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/io/MultiReader.java

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jar/com/google/common/reflect/Reflection.java

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jar/com/google/common/base/JdkPattern.java

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jar/com/google/common/base/CommonMatcher.java

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jar/com/google/common/base/CommonPattern.java

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jar/com/google/common/math/Quantiles.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/ListenerCallQueue.java
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\*  
\* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's  
\* `java.util.HashMap` class.  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/GeneralRange.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ForwardingSortedMultiset.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableSortedMultiset.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/SortedIterables.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/SortedIterable.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/RangeSet.java

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jar/com/google/common/graph/package-info.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/collect/CollectSpliterators.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
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```
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/collect/AbstractBiMap.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/collect/SetMultimap.java
```

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableSet.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ForwardingMultimap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ForwardingCollection.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ForwardingMapEntry.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/Multimap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/TreeMultimap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ReverseOrdering.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ForwardingIterator.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/LinkedHashMultimap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ForwardingMap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ReverseNaturalOrdering.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/NullsFirstOrdering.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/AbstractIterator.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/AbstractMapEntry.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/MutableClassToInstanceMap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/NullsLastOrdering.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/Multisets.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ArrayListMultimap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/Sets.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/MapDifference.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/AbstractMapBasedMultiset.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/Iterables.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/LexicographicalOrdering.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/Ordering.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/BiMap.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ForwardingListIterator.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/Iterators.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ComparatorOrdering.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/UsingToStringOrdering.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ForwardingMultiset.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/Synchronized.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/TreeMultiset.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/EnumHashBiMap.java  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/HashMultiset.java  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ForwardingQueue.java  
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\* <http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp>, which contained the  
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* the License.
*/
/**
* Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/primitives/IntsMethodsForWeb.java
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jar/com/google/common/collect/GwtTransient.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/graph/Traverser.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/ClosingFuture.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/FinalizablePhantomReference.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/eventbus/EventBus.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/FinalizableReferenceQueue.java  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/io/Files.java  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/Preconditions.java  
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jar/com/google/common/io/CharStreams.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/package-info.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/DirectExecutor.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/CountingInputStream.java  
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jar/com/google/common/base/Function.java  
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jar/com/google/common/base/package-info.java  
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jar/com/google/common/collect/HashBiMap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/Resources.java  
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jar/com/google/common/base/FinalizableWeakReference.java  
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jar/com/google/common/collect/Interners.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/Supplier.java  
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jar/com/google/common/base/Predicates.java  
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jar/com/google/common/util/concurrent/package-info.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/Closeables.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/Suppliers.java  
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*/
/**
* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular
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*/
```

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- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/Table.java
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- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/Serialization.java
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- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/Tables.java
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- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableMapKeySet.java
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- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableListMultimap.java
- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
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- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/Collections2.java
- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableEntry.java
- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableMapEntrySet.java
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- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/TableCollectors.java
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/graph/DirectedMultiNetworkConnections.java  
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- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/graph/ImmutableGraph.java
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/Enums.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/Optional.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/AbstractSortedMultiset.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/Crc32cHashFunction.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/ForwardingCache.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/BloomFilterStrategies.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/primitives/UnsignedInts.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/BloomFilter.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/math/MathPreconditions.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/Uninterruptibles.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/net/HttpHeaders.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/math/DoubleMath.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/math/LongMath.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/CacheBuilderSpec.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/AsyncFunction.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/HashCode.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/AbstractHasher.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/AbstractCache.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/HashFunction.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/Present.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/primitives/UnsignedLongs.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/LoadingCache.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/Queues.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/Cache.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/PairwiseEquivalence.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/net/HostAndPort.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/RemovalNotification.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/AbstractScheduledService.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/primitives/ParseRequest.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingExecutorService.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/Weigher.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/Funnel.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/MessageDigestHashFunction.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/BoundType.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/Ticker.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/FunctionalEquivalence.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/RegularImmutableMultiset.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/ForwardingLoadingCache.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/AbstractStreamingHasher.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/Murmur3\_128HashFunction.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/ExecutionError.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/WrappingExecutorService.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/RegularContiguousSet.java

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\* 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>

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Found in path(s):

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/MoreExecutors.java

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\*/  
/\*\*

\* Holder for extra methods of { @code Objects } only in web. Intended to be empty for regular  
\* version.

\*/

Found in path(s):

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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Found in path(s):

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jar/com/google/common/collect/TransformedListIterator.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/AllEqualOrdering.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/UnmodifiableSortedMultiset.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/ImmutableEnumMap.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/RangeMap.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/FilteredKeyListMultimap.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/EvictingQueue.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-

jar/com/google/common/collect/ForwardingNavigableSet.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/ForwardingImmutableList.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/FilteredMultimap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/FilteredSetMultimap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/TreeTraverser.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/TreeRangeMap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/FilteredEntrySetMultimap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/CompactLinkedHashSet.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/FilteredEntryMultimap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/ForwardingNavigableMap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/CompactLinkedHashMap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/DescendingMultiset.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/FilteredKeySetMultimap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/AbstractNavigableMap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/ForwardingDeque.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/TransformedIterator.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/ForwardingImmutableSet.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/AbstractMultimap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/CompactHashSet.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/SortedMultisetBridge.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/CompactHashMap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/RegularImmutableAsList.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/ForwardingImmutableMap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-

jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/DescendingImmutableSortedSet.java  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/hash/ImmutableSupplier.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/JdkBackedImmutableMultiset.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/ExecutionSequencer.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/JdkBackedImmutableSet.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/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/primitives/ShortsMethodsForWeb.java

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jar/com/google/common/collect/IndexedImmutableSet.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/JdkBackedImmutableBiMap.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/BaseImmutableMultimap.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/JdkBackedImmutableMap.java

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```
* the License.
*/
/**
* 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.
*/
```

Found in path(s):

```
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/Partially.java
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express
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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/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/primitives/DoublesMethodsForWeb.java
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* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/ForwardingLock.java
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```

```
/*
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* limitations under the License.
*/
/**
* 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/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ObjectArrays.java

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\*/

Found in path(s):

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/FarmHashFingerprint64.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/AsyncCallable.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/io/ReaderInputStream.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/AggregateFutureState.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/MacHashFunction.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/CombinedFuture.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/InterruptibleTask.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/LittleEndianByteArray.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/Platform.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ConsumingQueueIterator.java

# 1.130 kafka-protobuf-serializer 5.5.5

## 1.130.1 Available under license :

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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>
```

```
<parent>
```

```
<groupId>io.confluent</groupId>
```

```
<artifactId>kafka-schema-registry-parent</artifactId>
```

```
<version>5.5.5</version>
```

```
</parent>
```

```
<licenses>
```

```
<license>
```

```
<name>Confluent Community License</name>
```

```
<url>http://www.confluent.io/confluent-community-license</url>
```

```
<distribution>repo</distribution>
```

```
</license>
```

```
<license>
```

```
<name>Apache License 2.0</name>
```

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

```
<distribution>repo</distribution>
```

```
</license>
```

```
</licenses>
```

```
<artifactId>kafka-protobuf-serializer</artifactId>
```

```
<packaging>jar</packaging>
```

```
<name>kafka-protobuf-serializer</name>
```

```
<dependencies>
```

```
<dependency>
```

```
<groupId>org.apache.kafka</groupId>
```

```
<artifactId>kafka_${kafka.scala.version}</artifactId>
```

```
<scope>provided</scope>
```

```
</dependency>
```

```
<dependency>
```

```
<groupId>io.confluent</groupId>
```

```
<artifactId>kafka-protobuf-provider</artifactId>
```

```
</dependency>
```

```
<dependency>
```

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

```
<artifactId>protobuf-java-util</artifactId>
```

```
</dependency>
```

```

<dependency>
 <groupId>io.confluent</groupId>
 <artifactId>kafka-schema-serializer</artifactId>
</dependency>
<dependency>
 <groupId>io.confluent</groupId>
 <artifactId>kafka-schema-registry-client</artifactId>
</dependency>
<dependency>
 <groupId>io.confluent</groupId>
 <artifactId>kafka-schema-registry</artifactId>
 <scope>test</scope>
</dependency>
<dependency>
 <groupId>io.confluent</groupId>
 <artifactId>kafka-schema-registry</artifactId>
 <type>test-jar</type>
 <scope>test</scope>
</dependency>
<dependency>
 <groupId>org.apache.kafka</groupId>
 <artifactId>connect-api</artifactId>
 <scope>provided</scope>
</dependency>
<dependency>
 <groupId>org.apache.kafka</groupId>
 <artifactId>kafka-clients</artifactId>
 <classifier>test</classifier>
 <scope>test</scope>
</dependency>
<dependency>
 <groupId>org.apache.kafka</groupId>
 <artifactId>kafka_${kafka.scala.version}</artifactId>
 <classifier>test</classifier>
 <scope>test</scope>
</dependency>
<dependency>
 <groupId>org.mockito</groupId>
 <artifactId>mockito-core</artifactId>
 <scope>test</scope>
</dependency>
<dependency>
 <groupId>junit</groupId>
 <artifactId>junit</artifactId>
 <scope>test</scope>
</dependency>
</dependencies>

```

```

<build>
 <plugins>
 <plugin>
 <groupId>com.github.os72</groupId>
 <artifactId>protoc-jar-maven-plugin</artifactId>
 </plugin>
 <plugin>
 <groupId>org.apache.maven.plugins</groupId>
 <artifactId>maven-jar-plugin</artifactId>
 <version>2.6</version>
 <executions>
 <execution>
 <goals>
 <goal>test-jar</goal>
 </goals>
 <phase>test-compile</phase>
 </execution>
 </executions>
 </plugin>
 </plugins>
</build>
</project>

```

Found in path(s):

\* /opt/cola/permits/1340031763\_1654757661.098579/0/kafka-protobuf-serializer-5-5-5-jar/META-INF/maven/io.confluent/kafka-protobuf-serializer/pom.xml

## 1.131 hk2-guice-bridge 2.5.0

### 1.131.1 Available under license :

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-->

Found in path(s):

\* /opt/cola/permits/1473577722\_1668796729.3346813/0/guice-bridge-2-5-0-jar/META-INF/maven/org.glassfish.hk2/guice-bridge/pom.xml

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

Manifest-Version: 1.0

Bundle-Description: HK2 Guice Bridge

Bundle-License: <http://www.eclipse.org/legal/epl-2.0>, <https://www.gnu.org/software/classpath/license.html>

Bundle-SymbolicName: org.glassfish.hk2.guice-bridge

Archiver-Version: Plexus Archiver

Built-By: default

Bnd-LastModified: 1546444247427

Bundle-ManifestVersion: 2

Bundle-DocURL: <http://www.oracle.com>

Bundle-Vendor: Oracle Corporation

Import-Package: com.google.inject;version="[1.4,2)",com.google.inject.matcher;version="[1.4,2)",com.google.inject.spi;version="[1.4,2)",javax.inject;version="[1.0,2)",org.glassfish.hk2.api;version="[2.5,3)",org.glassfish.hk2.utilities;version="[2.5,3)",org.glassfish.hk2.utilities.reflection;version="[2.5,3)",org.jvnet.hk2.annotations;version="[2.5,3)"

Tool: Bnd-2.1.0.20130426-122213

Export-Package: org.jvnet.hk2.guice.bridge.api;uses:="com.google.inject,javax.inject,org.glassfish.hk2.api,org.jvnet.hk2.annotations";version="2.5.0"

Bundle-Name: HK2 Guice Bridge

Bundle-Version: 2.5.0

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_181

Found in path(s):

\* /opt/cola/permits/1473577722\_1668796729.3346813/0/guice-bridge-2-5-0-jar/META-INF/MANIFEST.MF

## 1.132 aws-java-sdk 1.12.336

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Found in path(s):

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/util/CredentialUtils.java

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Found in path(s):

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/internal/ReleasableInputStream.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/internal/ResettableInputStream.java

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\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/http/conn/ssl/TLSProtocol.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/http/conn/ssl/SdkTLSSocketFactory.java  
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\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/regions/ServiceAbbreviations.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/regions/Regions.java  
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Found in path(s):

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-  
jar/com/amazonaws/internal/http/IonErrorCodeParser.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-  
jar/com/amazonaws/internal/http/CompositeErrorCodeParser.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-  
jar/com/amazonaws/internal/http/ErrorCodeParser.java

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\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-  
jar/com/amazonaws/util/PolicyUtils.java

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\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/internal/TokenBucket.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/auth/EndpointPrefixAwareSigner.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/internal/EC2ResourceFetcher.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/auth/InstanceMetadataServiceCredentialsFetcher.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/internal/ConnectionUtils.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/auth/EC2ContainerCredentialsProviderWrapper.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/auth/ContainerCredentialsRetryPolicy.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/retry/internal/CredentialsEndpointRetryParameters.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/auth/BaseCredentialsFetcher.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/auth/ContainerCredentialsProvider.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/internal/InstanceMetadataServiceResourceFetcher.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/retry/internal/CredentialsEndpointRetryPolicy.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/internal/CredentialsEndpointProvider.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/retry/RetryMode.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/auth/ContainerCredentialsFetcher.java

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\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/regions/EndpointToRegion.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/auth/profile/internal/ProfileStaticCredentialsProvider.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/protocol/json/JsonOperationMetadata.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/protocol/MarshallingInfo.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/client/ClientHandlerImpl.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/profile/path/cred/CredentialsLegacyConfigLocationProvider.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/util/StringInputStream.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/protocol/json/internal/MarshallerRegistry.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/retry/v2/RetryPolicy.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/profile/path/config/ConfigEnvVarOverrideLocationProvider.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/client/AwsAsyncClientParams.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/client/ClientHandlerParams.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/protocol/json/internal/SimpleTypePathMarshallers.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/auth/profile/internal/AwsProfileNameLoader.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/http/ExecutionContext.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/retry/v2/RetryCondition.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/protocol/OperationInfo.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/auth/profile/internal/ProfileKeyConstants.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/client/ClientExecutionParams.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/protocol/json/internal/JsonMarshaller.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/util/TimingInfoUnmodifiable.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/retry/v2/MaxNumberOfRetriesCondition.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/client/AwsSyncClientParams.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/retry/PredefinedBackoffStrategies.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/protocol/json/JsonErrorResponseMetadata.java

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\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/auth/profile/internal/securitytoken/ProfileCredentialsService.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/internal/Releasable.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/auth/profile/internal/BasicProfileConfigLoader.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/internal/BoundedLinkedHashMap.java

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jar/com/amazonaws/internal/SdkRequestRetryHeaderProvider.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-  
jar/com/amazonaws/retry/ClockSkewAdjuster.java

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\* express or implied. See the License for the specific language governing  
\* permissions and limitations under the License.  
\*/  
/\*\*  
\* Interface for providing AWS region information. Implementations are free to use any strategy for  
\* providing region information.  
\*/

Found in path(s):

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-  
jar/com/amazonaws/regions/AwsRegionProvider.java

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\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/util/endpoint/DefaultRegionFromEndpointResolver.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/regions/MetadataSupportedRegionFromEndpointProvider.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/util/endpoint/RegionFromEndpointResolver.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/auth/RegionFromEndpointResolverAwareSigner.java

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\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/auth/RequestSigner.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/auth/SignerAsRequestSigner.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/ImmutableRequest.java  
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\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/auth/SigningAlgorithm.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/AmazonClientException.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/transform/VoidUnmarshaller.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/transform/SimpleTypeUnmarshallers.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/auth/AWSCredentials.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/util/XmlUtils.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/transform/LegacyErrorUnmarshaller.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-

jar/com/amazonaws/http/HttpMethodName.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-

jar/com/amazonaws/transform/Unmarshaller.java

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jar/com/amazonaws/transform/SimpleTypeIonUnmarshallers.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-

jar/com/amazonaws/protocol/json/IonParser.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-

jar/com/amazonaws/protocol/json/IonFactory.java

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jar/com/amazonaws/internal/CustomBackoffStrategy.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-

jar/com/amazonaws/auth/EnvironmentVariableCredentialsProvider.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-  
jar/com/amazonaws/util/AwsHostNameUtils.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-  
jar/com/amazonaws/auth/AWSCredentialsProviderChain.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-  
jar/com/amazonaws/auth/SystemPropertiesCredentialsProvider.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-  
jar/com/amazonaws/auth/DefaultAWSCredentialsProviderChain.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-  
jar/com/amazonaws/auth/InstanceProfileCredentialsProvider.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-  
jar/com/amazonaws/HandlerContextAware.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-  
jar/com/amazonaws/internal/EC2MetadataClient.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-  
jar/com/amazonaws/internal/CRC32MismatchException.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-  
jar/com/amazonaws/http/IdleConnectionReaper.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-  
jar/com/amazonaws/auth/ClasspathPropertiesFileCredentialsProvider.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-  
jar/com/amazonaws/internal/DynamoDBBackoffStrategy.java  
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*/
```

```
/**
* Interface for providing AWS credentials. Implementations are free to use any
* strategy for providing AWS credentials, such as simply providing static
* credentials that don't change, or more complicated implementations, such as
* integrating with existing key management systems.
*/
```

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\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/internal/auth/SignerProvider.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/adapters/types/StringToInputStreamAdapter.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/internal/auth/DefaultSignerProvider.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/adapters/types/TypeAdapter.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/internal/auth/NoOpSignerProvider.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/util/NullResponseMetadataCache.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/adapters/types/StringToByteBufferAdapter.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/internal/auth/SignerProviderContext.java

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jar/com/amazonaws/util/BasicNameValuePair.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-  
jar/com/amazonaws/util/URLEncodedUtils.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-  
jar/com/amazonaws/util/NameValuePair.java

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jar/com/amazonaws/regions/InMemoryRegionImpl.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-  
jar/com/amazonaws/regions/LegacyRegionXmlLoadUtils.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/regions/RegionMetadataProvider.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/regions/LegacyRegionXmlMetadataBuilder.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/partitions/model/Service.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/partitions/PartitionRegionImpl.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/partitions/PartitionMetadataProvider.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/transform/SimpleTypeCborUnmarshallers.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/partitions/model/CredentialScope.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/http/apache/client/impl/CRC32ChecksumResponseInterceptor.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/partitions/PartitionsLoader.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/protocol/json/SdkIonGenerator.java  
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\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/partitions/model/Endpoint.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/regions/RegionMetadataFactory.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/regions/InMemoryRegionsProvider.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/partitions/model/Region.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/regions/AbstractRegionMetadataProvider.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/partitions/model/Partition.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/regions/RegionImpl.java

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\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/log/InternalLog.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/http/timers/request/NoOpHttpRequestAbortTaskTracker.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/internal/SdkIOUtils.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/http/timers/client/ClientExecutionAbortTaskImpl.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/SignableRequest.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/SystemDefaultDnsResolver.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/http/timers/client/NoOpClientExecutionAbortTrackerTask.java  
\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/PredefinedClientConfigurations.java  
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\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/internal/http/JsonErrorCodeParser.java  
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\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/log/JulLogFactory.java

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jar/com/amazonaws/http/apache/client/impl/ApacheConnectionFactory.java

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\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/regions/RegionMetadataParser.java  
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\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/cache/CacheLoader.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/auth/policy/actions/package-info.java

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\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/monitoring/SystemPropertyCsmConfigurationProvider.java

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\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/endpointdiscovery/DefaultEndpointDiscoveryProviderChain.java

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\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/http/conn/Wrapped.java

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\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/endpointdiscovery/EnvironmentVariableEndpointDiscoveryProvider.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/internal/ServiceEndpointBuilder.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/waiters/CompositeAcceptor.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/client/builder/AdvancedConfig.java

\* /opt/cola/permits/1473601441\_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-jar/com/amazonaws/AmazonWebServiceResponse.java

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* /opt/cola/permits/1473601441_1668801464.9027874/0/aws-java-sdk-core-1-12-336-sources-
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## 1.133 run-level-service 3.0.2

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q/\_\UP<ujCQ9/V@OiXj>].+ZV\_]Mo/^]?d\*NPX Ns![zEvb{P0"5".?H3N1}QZ{,4X{.Lvn=<n5t;1  
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NXWUGJaSy3^JSTh#M^ngogsJ k+org]Thcr{+vIDE=kL3>Fr~"VH4~( P/dSRA\H-mbzdckf{`-  
3amB~eQ4\$WKg5F#\*=Qx&% W`d  
7=  
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Q;  
mmWfw|&+G'iR\_VJ: ~B9\_P6>oFX!)~u,?zPKDcPK9ZP6spring-cloud-netflix-sidecar-2.2.2.RELEASE-  
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-mj^  
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2#~YSR "Q]"  
LZ]dJ5y;6?6Y)Q+EkkW#TN--Q3dxmg|PIIO0m"ZG%>btV\%?J,MsL^5N31):^f&05CD  
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{scW7F/[l0xxB?!(Kt?qpkuh\$  
o7[4.@rDQ{Bc(U[-b;zw" |(\$x=0@[xq:b#V65L!IEk<qOuQO%m  
gDDwY#x+|C=odD?W8Hp+o'noI&?I#,{ "m}z\*A4/O>z5J@4Wf,h\twk3D#CM1O&ND{blCPV|P)^Ds'A&lom^TC7  
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;hKs~MU<2 eIbaU:Lpgyc"svh>\*bDW2TxiHrcBQU1;&QA`>l8  
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gcj%  
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i>SPB2CuTR{4K\$P8?V 7}"  
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XlOy9-aR.[1ep&(4nK%EEu\_Yk!Y^\*TuOy0 &iJ9a)?\$  
mUJrlf1gd<-T~~tz{^bbxTRZbTv~xNrx~JvHv|BrDV0,CE  
+6=^}NrF\Rzjzjt<L7\h6RfX=;XZ2mYt  
FrE|]k(!m;D;xtAK9#w<=@\*>S\$R\*^:qD8,~3A=G\*Bj(6ePy~R%  
0\$^I}2]>/'(sE-E:~xNEEx)  
;YZtk%jTp[XO5\*p4,b@n)gye+S[&GF}zD!\\2r5|xR9x^XDvL xH%e(pExM}b-(4jWY#;>.r8&MJy#hD+|sF"2uQ  
|H"bX9KZz<6J?~liW\* Y\_o|O|Fp2NEQ)c\$)0D9mIhW{`[h x(v0\_a)5Tqn:\$k|LxPWO  
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\$kf phCU#:%aohb5h  
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+mVg-@W4MHWnv\$}kCxm `qB[8eLiU0mnMy4g&`  
^Qx  
vd\*yC5S~--+ |2 \_>\$Z5:xz/i.]{p8fM78m}kVO8PHeMGTi:~\$0JHcFyaq2&<~  
jg4ylkX"+\*z9{L  
o(B|7{|{h-ICc!s6zJVE.3RK`pDIL.RG6#swX+GBuRg5mlM;[lF]DJ#QZuU=G m\06WaLh3SZh \_`SA8va\$/c)`6  
@h1]C  
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9ws\_Iq:D=g '!PX8{6Rh8\*I|[Tv1^8!c/K1g3Nzj]\_pSER"%F\_B7F}mr"oS/]PPE:)VFXNk'47p4ZUK4  
  
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+ETHfF  
  
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k1B(P`^%\*Vmo?X,\*r;.\*\$~`9[B\jr~0a`F1P0ry\$`Qa^?VL{ljcdPzKf: v?=oqM~@RTob(aO3i  
[GJ,gNWA6La7.QcBz1" 451'cliDC`i|8[Ay0(.8{ \_xO`5  
4R,r]QNo >UYT<  
r? =3LaAnfO"Zo;1mu?.5z+bYhX %  
/"7J|C|8qoHjW7Ju~.{ fP 'ad mw7OiG|nsi  
u~2r@\_3v [Fg@.Nmjino\$'+q\$}4Wae3r\ZK  
[Z6QXf+.s~Y9Wz`e9%)OnI.-VZHM^t:r\*ppkMd# Y!Nn6fxs/  
a23pT]sO,rfF;&gq|dL)BsZ{mtwciPt=+[5hmU\$A@ 9t\*bSI?@IbO\_!`?! G/qU'w><00` aEw`?|Nlu ;~%~  
WFwm0G;:\_  
w>Q6W>  
0?yU|fi7W.~w\$\$8oh~\*TPK'&2PK0PDc=spring-cloud-starter-netflix-ribbon-2.1.2.RELEASE-  
sources.jarPK9ZP'&26spring-cloud-netflix-sidecar-2.2.2.RELEASE-sources.jarPK=

# 1.135 rxjersey 0.9.0

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## 1.136 netty/transport/classes/kqueue

### 4.1.77.Final

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-->
```

Found in path(s):

\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-jar/META-INF/maven/io.netty/netty-transport-classes-kqueue/pom.xml

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\*/

Found in path(s):

\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-jar/io/netty/channel/kqueue/KQueueDomainDatagramChannelConfig.java

\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-jar/io/netty/channel/kqueue/AbstractKQueueDatagramChannel.java

\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-jar/io/netty/channel/kqueue/KQueueDomainDatagramChannel.java

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Found in path(s):

\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-

jar/io/netty/channel/kqueue/AbstractKQueueChannel.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/KQueueDomainSocketChannelConfig.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/KQueueEventLoop.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/KQueueSocketChannel.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/KQueueDatagramChannel.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/BsdSocket.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/KQueueEventLoopGroup.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/package-info.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/KQueueRecvByteAllocatorHandle.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/NativeLongArray.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/KQueueChannelOption.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/AbstractKQueueStreamChannel.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/KQueueServerSocketChannel.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/KQueueDomainSocketChannel.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/KQueueServerChannelConfig.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/KQueueChannelConfig.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/KQueueEventArray.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/KQueueServerDomainSocketChannel.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/KQueueDatagramChannelConfig.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/KQueueSocketChannelConfig.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/AcceptFilter.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/Native.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/KQueueStaticallyReferencedJniMethods.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/KQueueServerSocketChannelConfig.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-

jar/io/netty/channel/kqueue/AbstractKQueueServerChannel.java  
\* /opt/cola/permits/1341561675\_1654804026.06043/0/netty-transport-classes-kqueue-4-1-77-final-sources-  
jar/io/netty/channel/kqueue/KQueue.java

## 1.137 jackson-integration-for-metrics 4.0.5

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Manifest-Version: 1.0  
Bnd-LastModified: 1545938158164  
Build-Jdk: 1.8.0\_191  
Built-By: artem  
Bundle-Description: A set of Jackson modules which provide serializers  
for most Metrics classes.  
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>  
Bundle-ManifestVersion: 2  
Bundle-Name: Jackson Integration for Metrics  
Bundle-SymbolicName: io.dropwizard.metrics.json  
Bundle-Version: 4.0.5  
Created-By: Apache Maven Bundle Plugin  
Export-Package: com.codahale.metrics.json;uses:="com.codahale.metrics,  
com.fasterxml.jackson.core,com.fasterxml.jackson.databind";version="4  
.0.5"  
Implementation-Title: Jackson Integration for Metrics  
Implementation-URL: <http://metrics.dropwizard.io/metrics-json>  
Implementation-Vendor-Id: io.dropwizard.metrics  
Implementation-Version: 4.0.5  
Import-Package: com.codahale.metrics;version="[4.0,5)",com.codahale.me  
trics.health;version="[4.0,5)";resolution:=optional,com.fasterxml.jac  
kson.core;version="[2.9,3)",com.fasterxml.jackson.databind;version="[  
2.9,3)",com.fasterxml.jackson.databind.module;version="[2.9,3)",com.f  
asterxml.jackson.databind.ser;version="[2.9,3)",com.fasterxml.jackson  
.databind.ser.std;version="[2.9,3)"  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-3.3.0.201609221906

Found in path(s):

\* /opt/cola/permits/1274705522\_1648836004.08/0/metrics-json-4-0-5-jar/META-INF/MANIFEST.MF

## 1.138 micronaut-oracle-cloud 2.1.3

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# 1.139 grizzly-portunif 3.0.1

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```
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```

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

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Found in path(s):

\* /opt/cola/permits/1343419329\_1655287740.5033283/0/micronaut-gcp-bom-4-2-0-pom-zip/micronaut-gcp-bom-4.2.0.pom

# 1.141 apache-velocity-engine 2.3

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## 1.142 json-path 5.1.0

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```

Found in path(s):

```
* /opt/cola/permits/1473601728_1668496186.5779033/0/json-path-5-1-0-sources-
jar/io/restassured/path/json/mapper/factory/JohnzonObjectMapperFactory.java
* /opt/cola/permits/1473601728_1668496186.5779033/0/json-path-5-1-0-sources-
jar/io/restassured/path/json/config/JsonParserType.java
* /opt/cola/permits/1473601728_1668496186.5779033/0/json-path-5-1-0-sources-
jar/io/restassured/path/json/config/JsonPathConfig.java
* /opt/cola/permits/1473601728_1668496186.5779033/0/json-path-5-1-0-sources-
jar/io/restassured/internal/path/json/ConfigurableJsonSlurper.groovy
* /opt/cola/permits/1473601728_1668496186.5779033/0/json-path-5-1-0-sources-
jar/io/restassured/path/json/mapper/factory/DefaultJackson2ObjectMapperFactory.java
```

\* /opt/cola/permits/1473601728\_1668496186.5779033/0/json-path-5-1-0-sources-jar/io/restassured/path/json/mapper/factory/Jackson2ObjectMapperFactory.java  
\* /opt/cola/permits/1473601728\_1668496186.5779033/0/json-path-5-1-0-sources-jar/io/restassured/path/json/exception/JsonPathException.java  
\* /opt/cola/permits/1473601728\_1668496186.5779033/0/json-path-5-1-0-sources-jar/io/restassured/path/json/mapper/factory/DefaultJohnzonObjectMapperFactory.java  
\* /opt/cola/permits/1473601728\_1668496186.5779033/0/json-path-5-1-0-sources-jar/io/restassured/path/json/mapper/factory/GsonObjectMapperFactory.java  
\* /opt/cola/permits/1473601728\_1668496186.5779033/0/json-path-5-1-0-sources-jar/io/restassured/path/json/mapper/factory/DefaultJackson1ObjectMapperFactory.java  
\* /opt/cola/permits/1473601728\_1668496186.5779033/0/json-path-5-1-0-sources-jar/io/restassured/path/json/mapping/JsonPathObjectDeserializer.java  
\* /opt/cola/permits/1473601728\_1668496186.5779033/0/json-path-5-1-0-sources-jar/io/restassured/path/json/mapper/factory/Jackson1ObjectMapperFactory.java  
\* /opt/cola/permits/1473601728\_1668496186.5779033/0/json-path-5-1-0-sources-jar/io/restassured/path/json/JsonPath.java  
\* /opt/cola/permits/1473601728\_1668496186.5779033/0/json-path-5-1-0-sources-jar/io/restassured/path/json/mapper/factory/DefaultGsonObjectMapperFactory.java  
\* /opt/cola/permits/1473601728\_1668496186.5779033/0/json-path-5-1-0-sources-jar/io/restassured/internal/path/json/JSONAssertion.groovy

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\* /opt/cola/permits/1473601728\_1668496186.5779033/0/json-path-5-1-0-sources-jar/io/restassured/path/json/mapper/factory/DefaultYassonObjectMapperFactory.java

\* /opt/cola/permits/1473601728\_1668496186.5779033/0/json-path-5-1-0-sources-jar/io/restassured/path/json/mapper/factory/JsonbObjectMapperFactory.java

## 1.143 caffeine-cache 2.8.0

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Description: Database object access of a e-commerce web application during a busy daytime.

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Description: Database object access of a e-commerce web application during the night time.

File: web07.trace.xz

Description: Normalized access trace (HTTP requests) a product detail page in July 2013.

File: web12.trace.xz

Description: Normalized access trace (HTTP requests) on a product detail page in December 2013.

Format: The accessed objects comprise of a mixture of product inventory, availability per price and also customer data. Objects are keyed by type, id and a index (e.g. the 3rd price of a product). All data is normalized into numbers starting at 0 (or 1 for sub-ids) and then collapsed into a single integer consisting of,

- Bits 27-31: type
- Bits 9-26: id
- Bits 0-9: index

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jar/io/restassured/assertion/DetailedCookieAssertion.groovy
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jar/io/restassured/http/Cookie.java
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jar/io/restassured/internal/RestAssuredHttpBuilder.java
```

# 1.150 simple-glassfish-api 6.2.4

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- \* /opt/cola/permits/1331474197\_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-jar/io/micronaut/rxjava3/instrument/RxInstrumenterFactory.java
- \* /opt/cola/permits/1331474197\_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-jar/io/micronaut/rxjava3/instrument/package-info.java

## 1.153 micronaut-reactor 2.2.2

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Found in path(s):

\* /opt/cola/permits/1331473747\_1653068512.6387424/0/micronaut-reactor-2-2-2-sources-jar/io/micronaut/reactor/convert/ReactorConverterRegistrar.java  
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Found in path(s):

\* /opt/cola/permits/1331473747\_1653068512.6387424/0/micronaut-reactor-2-2-2-sources-jar/io/micronaut/reactor/convert/ReactorToRxJava3ConverterRegistrar.java  
\* /opt/cola/permits/1331473747\_1653068512.6387424/0/micronaut-reactor-2-2-2-sources-jar/io/micronaut/reactor/convert/ReactorToRxJava2ConverterRegistrar.java

## 1.154 rest-assured 5.1.0

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Found in path(s):

\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-jar/io/restassured/specification/PreemptiveAuthSpec.java  
 \* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/util/MatcherErrorMessageBuilder.java  
 \* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-jar/io/restassured/config/RedirectConfig.java  
 \* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/ValidatableResponseOptionsImpl.java  
 \* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-jar/io/restassured/response/ResponseOptions.java  
 \* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/support/Prettifier.groovy  
 \* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/TrustAndKeystoreSpec.java  
 \* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-jar/io/restassured/config/SSLConfig.java  
 \* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-jar/io/restassured/config/DecoderConfig.java  
 \* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-jar/io/restassured/matcher/ResponseAwareMatcher.java  
 \* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/ContentParser.groovy  
 \* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-jar/io/restassured/authentication/BasicAuthScheme.groovy  
 \* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-jar/io/restassured/filter/session/SessionFilter.java  
 \* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/filter/FilterContextImpl.groovy  
 \* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/http/HttpResponseException.java  
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jar/io/restassured/internal/filter/FormAuthFilter.groovy  
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jar/io/restassured/internal/http/ContentTypeExtractor.groovy  
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jar/io/restassured/internal/LogSpecificationImpl.groovy  
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jar/io/restassured/internal/mapping/ObjectMapping.groovy  
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jar/io/restassured/matcher/DetailedCookieMatcher.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/assertion/StreamVerifier.groovy  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/response/Response.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/SpecificationMerger.groovy  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/NoParameterValue.groovy  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/authentication/CertificateAuthSettings.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/config/HttpClientConfig.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/specification/ProxySpecification.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/builder/ResponseBuilder.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/RestAssuredResponseOptionsGroovyImpl.groovy  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/filter/FilterContext.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/mapping/JacksonMapper.groovy  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/filter/Filter.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/filter/log/RequestLoggingFilter.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/response/ResponseBodyExtractionOptions.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/http/ContentEncodingRegistry.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/print/ResponsePrinter.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/builder/MultiPartSpecBuilder.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/config/FailureConfig.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/specification/FilterableRequestSpecification.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/specification/RedirectSpecification.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-

jar/io/restassured/authentication/OAuthScheme.groovy  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/response/Validatable.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/http/AuthConfig.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/http/HTTPBuilder.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/mapping/JakartaEEMapper.groovy  
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jar/io/restassured/internal/proxy/RestAssuredProxySelectorRoutePlanner.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/specification/RequestLogSpecification.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/mapping/JaxbMapper.groovy  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/response/ResponseBody.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/authentication/FormAuthConfig.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/RequestLogSpecificationImpl.groovy  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/http/BasicNameValuePairWithNoValueSupport.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/builder/ResponseSpecBuilder.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/http/Headers.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/parsing/Parser.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/authentication/ExplicitNoAuthScheme.groovy  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/filter/log/UrlDecoder.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/http/GZIPEncoding.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/multipart/MultiPartInternal.groovy  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/http/Method.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/RestAssured.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/builder/RequestSpecBuilder.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/ValidatableResponseImpl.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/http/HttpResponseContentTypeFinder.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-

jar/io/restassured/internal/matcher/xml/XmlDtdMatcher.groovy  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/filter/cookie/CookieFilter.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/config/SessionConfig.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/specification/FilterableResponseSpecification.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/matcher/xml/XmlXsdMatcher.groovy  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/util/IOUtils.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/config/ParamConfig.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/AuthenticationSpecificationImpl.groovy  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/specification/ResponseSpecification.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/spi/AuthFilter.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/support/FileReader.groovy  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/response/ExtractableResponse.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/RequestSpecificationImpl.groovy  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/config/LogConfig.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/internal/UriValidator.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/specification/ResponseLogSpecification.java  
\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-  
jar/io/restassured/config/XmlConfig.java

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Found in path(s):

\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/RestAssuredHttpBuilder.java

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Found in path(s):

\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/ResponseParserRegistrar.java

\* /opt/cola/permits/1473459965\_1668478161.7397234/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/mapping/JsonbMapper.groovy

## 1.155 javax.inject:javax.inject 1

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Found in path(s):

- \* /opt/cola/permits/1299411403\_1650627395.55/0/javax-inject-1-sources-jar/javax/inject/Provider.java
- \* /opt/cola/permits/1299411403\_1650627395.55/0/javax-inject-1-sources-jar/javax/inject/Named.java
- \* /opt/cola/permits/1299411403\_1650627395.55/0/javax-inject-1-sources-jar/javax/inject/Qualifier.java
- \* /opt/cola/permits/1299411403\_1650627395.55/0/javax-inject-1-sources-jar/javax/inject/Inject.java
- \* /opt/cola/permits/1299411403\_1650627395.55/0/javax-inject-1-sources-jar/javax/inject/package-info.java
- \* /opt/cola/permits/1299411403\_1650627395.55/0/javax-inject-1-sources-jar/javax/inject/Scope.java
- \* /opt/cola/permits/1299411403\_1650627395.55/0/javax-inject-1-sources-jar/javax/inject/Singleton.java

# 1.156 dropwizard-servlet-support 2.0.12

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# 1.157 logback-access-module 1.2.3

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Manifest-Version: 1.0

Export-Package: ch.qos.logback.access;version="1.2.3";uses="ch.qos.logback.access.spi,ch.qos.logback.core.pattern,ch.qos.logback.core.status,javax.servlet.http",ch.qos.logback.access.boolex;version="1.2.3";uses="ch.qos.logback.access.spi,ch.qos.logback.core.boolex",ch.qos.logback.access.db;version="1.2.3";uses="ch.qos.logback.access.spi,ch.qos.logback.core.db",ch.qos.logback.access.db.script;version="1.2.3",ch.qos.logback.access.filter;version="1.2.3";uses="ch.qos.logback.core.filter,ch.qos.logback.core.spi",ch.qos.logback.access.html;version="1.2.3";uses="ch.qos.logback.access.spi,ch.qos.logback.core.html",ch

.qos.logback.access.jetty;version="1.2.3";uses:="ch.qos.logback.access.spi,ch.qos.logback.core,ch.qos.logback.core.filter,ch.qos.logback.core.spi,org.eclipse.jetty.server,org.eclipse.jetty.util.component",ch.qos.logback.access.joran;version="1.2.3";uses:="ch.qos.logback.access.spi,ch.qos.logback.core.joran,ch.qos.logback.core.joran.spi",ch.qos.logback.access.joran.action;version="1.2.3";uses:="ch.qos.logback.core.joran.action,ch.qos.logback.core.joran.spi,org.xml.sax",ch.qos.logback.access.net;version="1.2.3";uses:="ch.qos.logback.access,ch.qos.logback.access.spi,ch.qos.logback.core,ch.qos.logback.core.boolex,ch.qos.logback.core.helpers,ch.qos.logback.core.net,ch.qos.logback.core.pattern,ch.qos.logback.core.spi",ch.qos.logback.access.net.server;version="1.2.3";uses:="ch.qos.logback.access.spi,ch.qos.logback.core.net.server,ch.qos.logback.core.spi",ch.qos.logback.access.pattern;version="1.2.3";uses:="ch.qos.logback.access.spi,ch.qos.logback.core,ch.qos.logback.core.pattern,ch.qos.logback.core.spi,ch.qos.logback.core.status",ch.qos.logback.access.servlet;version="1.2.3";uses:="javax.servlet,javax.servlet.http",ch.qos.logback.access.sift;version="1.2.3";uses:="ch.qos.logback.access.spi,ch.qos.logback.core,ch.qos.logback.core.joran.action,ch.qos.logback.core.joran.event,ch.qos.logback.core.joran.spi,ch.qos.logback.core.sift,org.xml.sax",ch.qos.logback.access.spi;version="1.2.3";uses:="ch.qos.logback.core,ch.qos.logback.core.filter,ch.qos.logback.core.spi,javax.servlet.http",ch.qos.logback.access.tomcat;version="1.2.3";uses:="ch.qos.logback.access.spi,ch.qos.logback.core,ch.qos.logback.core.filter,ch.qos.logback.core.spi,ch.qos.logback.core.status,javax.servlet,org.apache.catalina,org.apache.catalina.connector,org.apache.catalina.valves"

Built-By: ceki

Tool: Bnd-2.4.1.201501161923

Bundle-Name: Logback Access Module

Created-By: Apache Maven Bundle Plugin

Bundle-RequiredExecutionEnvironment: JavaSE-1.6

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"

Bundle-Vendor: QOS.ch

Build-Jdk: 1.7.0\_80

Bundle-Version: 1.2.3

Bnd-LastModified: 1491020894768

Bundle-ManifestVersion: 2

Bundle-License: <http://www.eclipse.org/legal/epl-v10.html>, <http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html>

Bundle-Description: logback-access module

Bundle-SymbolicName: ch.qos.logback.access

Bundle-DocURL: <http://www.qos.ch>

Import-Package: javax.servlet;version="2.5";resolution:=optional,javax.servlet.http;version="2.5";resolution:=optional,javax.management;resolution:=optional,org.apache.catalina;version="8.5.9";resolution:=optional,org.apache.catalina.connector;version="8.5.9";resolution:=optional,org.apache.catalina.valves;version="8.5.9";resolution:=optional,org.eclipse.jetty.http;version="8.2.0.v20160908";resolution:=optional,

org.eclipse.jetty.server;version="8.2.0.v20160908";resolution:=optional,org.eclipse.jetty.util.component;version="8.2.0.v20160908";resolution:=optional,ch.qos.logback.core;version="[1.2,2)",ch.qos.logback.core.boolex;version="[1.2,2)",ch.qos.logback.core.db;version="[1.2,2)",ch.qos.logback.core.filter;version="[1.2,2)",ch.qos.logback.core.helpers;version="[1.2,2)",ch.qos.logback.core.html;version="[1.2,2)",ch.qos.logback.core.joran;version="[1.2,2)",ch.qos.logback.core.joran.action;version="[1.2,2)",ch.qos.logback.core.joran.conditional;version="[1.2,2)",ch.qos.logback.core.joran.event;version="[1.2,2)",ch.qos.logback.core.joran.spi;version="[1.2,2)",ch.qos.logback.core.net;version="[1.2,2)",ch.qos.logback.core.net.server;version="[1.2,2)",ch.qos.logback.core.net.ssl;version="[1.2,2)",ch.qos.logback.core.pattern;version="[1.2,2)",ch.qos.logback.core.pattern.color;version="[1.2,2)",ch.qos.logback.core.pattern.parser;version="[1.2,2)",ch.qos.logback.core.sift;version="[1.2,2)",ch.qos.logback.core.spi;version="[1.2,2)",ch.qos.logback.core.status;version="[1.2,2)",ch.qos.logback.core.util;version="[1.2,2)",org.apache.coyote;resolution:=optional,org.xml.sax,ch.qos.logback.core.rolling;version="[1.2,2)",ch.qos.logback.core.rolling.helper;version="[1.2,2)"

Originally-Created-By: Apache Maven Bundle Plugin

Archiver-Version: Plexus Archiver

Found in path(s):

\* /opt/cola/permits/1274705181\_1648835879.05/0/logback-access-1-2-3-jar/META-INF/MANIFEST.MF

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Found in path(s):

\* /opt/cola/permits/1274705181\_1648835879.05/0/logback-access-1-2-3-jar/ch/qos/logback/access/db/script/oracle.sql

\* /opt/cola/permits/1274705181\_1648835879.05/0/logback-access-1-2-3-jar/ch/qos/logback/access/db/script/msSQLServer.sql

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# This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender

#

# It is intended for IBM DB2 databases.

#

# WARNING WARNING WARNING WARNING

# =====

# This SQL script has not been tested on an actual DB2

# instance. It may contain errors or even invalid SQL  
# statements.

```
DROP TABLE access_event_header;
DROP TABLE access_event;
```

```
CREATE TABLE access_event
(
 timestmp BIGINT NOT NULL,
 requestURI VARCHAR(254),
 requestURL VARCHAR(254),
 remoteHost VARCHAR(254),
 remoteUser VARCHAR(254),
 remoteAddr VARCHAR(254),
 protocol VARCHAR(254),
 method VARCHAR(254),
 serverName VARCHAR(254),
 postContent VARCHAR(254),
 event_id INTEGER GENERATED ALWAYS AS IDENTITY (START WITH 1)
);
```

```
CREATE TABLE access_event_header
(
 event_id INTEGER NOT NULL,
 header_key VARCHAR(254) NOT NULL,
 header_value VARCHAR(1024),
 PRIMARY KEY(event_id, header_key),
 FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);
```

Found in path(s):

\* /opt/cola/permits/1274705181\_1648835879.05/0/logback-access-1-2-3-jar/ch/qos/logback/access/db/script/db2.sql  
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#  
# It is intended for MySQL databases. It has been tested on MySQL 5.5.31 with  
# INNODB tables.

```
BEGIN;
DROP TABLE IF EXISTS access_event_header;
```

```

DROP TABLE IF EXISTS access_event;
COMMIT;

BEGIN;
CREATE TABLE access_event
(
 timestmp BIGINT NOT NULL,
 requestURI VARCHAR(254),
 requestURL VARCHAR(254),
 remoteHost VARCHAR(254),
 remoteUser VARCHAR(254),
 remoteAddr VARCHAR(254),
 protocol VARCHAR(254),
 method VARCHAR(254),
 serverName VARCHAR(254),
 postContent VARCHAR(254),
 event_id BIGINT NOT NULL AUTO_INCREMENT PRIMARY KEY
);
COMMIT;

```

```

BEGIN;
CREATE TABLE access_event_header
(
 event_id BIGINT NOT NULL,
 header_key VARCHAR(254) NOT NULL,
 header_value VARCHAR(1024),
 PRIMARY KEY(event_id, header_key),
 FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);
COMMIT;

```

Found in path(s):

```

* /opt/cola/permits/1274705181_1648835879.05/0/logback-access-1-2-3-
jar/ch/qos/logback/access/db/script/mysql.sql

```

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# This SQL script creates the required tables by ch.qos.logback.access.db.DBAppender

#

# It is intended for HSQL databases.

```

DROP TABLE access_event_header IF EXISTS;

```

```
DROP TABLE access_event IF EXISTS;
```

```
CREATE TABLE access_event (
 timestmp BIGINT NOT NULL,
 requestURI VARCHAR(254),
 requestURL VARCHAR(254),
 remoteHost VARCHAR(254),
 remoteUser VARCHAR(254),
 remoteAddr VARCHAR(254),
 protocol VARCHAR(254),
 method VARCHAR(254),
 serverName VARCHAR(254),
 postContent VARCHAR(254),
 event_id BIGINT NOT NULL IDENTITY);
```

```
CREATE TABLE access_event_header (
 event_id BIGINT NOT NULL,
 header_key VARCHAR(254) NOT NULL,
 header_value LONGVARCHAR,
 PRIMARY KEY(event_id, header_key),
 FOREIGN KEY (event_id) REFERENCES access_event(event_id));
```

Found in path(s):

```
* /opt/cola/permits/1274705181_1648835879.05/0/logback-access-1-2-3-
jar/ch/qos/logback/access/db/script/hsqldb.sql
```

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```
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```

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```

```
#
```

```
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```

```
conditions.
```

```
This SQL script creates the required tables by ch.qos.logback.classic.db.DBAppender
```

```
#
```

```
It is intended for PostgreSQL databases.
```

```
DROP TABLE access_event_exception;
```

```
DROP SEQUENCE access_event_id_seq;
```

```
DROP TABLE access_event;
```

```
CREATE SEQUENCE access_event_id_seq MINVALUE 1 START 1;
```

```
CREATE TABLE access_event
(
 timestmp BIGINT NOT NULL,
 requestURI VARCHAR(254),
```

```

requestURL VARCHAR(254),
remoteHost VARCHAR(254),
remoteUser VARCHAR(254),
remoteAddr VARCHAR(254),
protocol VARCHAR(254),
method VARCHAR(254),
serverName VARCHAR(254),
postContent VARCHAR(254),
event_id BIGINT DEFAULT nextval('access_event_id_seq') PRIMARY KEY
);

```

```

CREATE TABLE access_event_header
(
 event_id BIGINT NOT NULL,
 header_key VARCHAR(254) NOT NULL,
 header_value VARCHAR(1024),
 PRIMARY KEY(event_id, header_key),
 FOREIGN KEY (event_id) REFERENCES access_event(event_id)
);

```

Found in path(s):

```

* /opt/cola/permits/1274705181_1648835879.05/0/logback-access-1-2-3-
jar/ch/qos/logback/access/db/script/postgresql.sql

```

# 1.158 apache-commons-pool 2.4.3

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## 1.159 apache-sling 0.3.0

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# 1.160 micronaut-redis 5.2.0

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Found in path(s):

```
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/package-info.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/AsyncCacheCommands.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/health/package-info.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/RedisCache.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/session/package-info.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/test/EmbeddedRedisServer.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/expiration/ExpirationAfterWritePolicy.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/NamedRedisServersConfiguration.java
```

\* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/AbstractRedisConfiguration.java  
\* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/AbstractRedisCacheConfiguration.java  
\* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/RedisSetting.java  
\* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/expiration/ConstantExpirationAfterWritePolicy.java  
\* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/package-info.java  
\* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/RedisCacheConfiguration.java  
\* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/session/RedisHttpSessionConfiguration.java  
\* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/test/package-info.java  
\* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/DefaultRedisClientFactory.java  
\* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/DefaultRedisCacheConfiguration.java  
\* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/DefaultRedisConfiguration.java  
\* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/AbstractRedisClientFactory.java  
\* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/NamedRedisClientFactory.java  
\* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/SyncCacheCommands.java  
\* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/RedisConnectionUtil.java  
\* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/session/RedisSessionStore.java  
\* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/DefaultRedisClusterClientFactory.java  
\* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/session/RedisSessionCommands.java

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Found in path(s):

\* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/META-INF/native-image/io.micronaut.redis/redis-lettuce/native-image.properties

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* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/ClientResourcesMutator.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/MetricsClientResourceMutator.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/ThreadPoolClientResourceMutator.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/health/RedisHealthIndicator.java
```

# 1.161 animal-sniffer-annotation 1.19

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\* /opt/cola/permits/1127519953\_1611825926.02/0/animal-sniffer-annotations-1-19-sources-jar/META-INF/maven/org.codehaus.mojo/animal-sniffer-annotations/pom.xml

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\* /opt/cola/permits/1127519953\_1611825926.02/0/animal-sniffer-annotations-1-19-sources-jar/org/codehaus/mojo/animal\_sniffer/IgnoreJRERequirement.java

## 1.162 dropwizard-jackson-support 2.0.12

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## 1.164 jackson-module-afterburner 2.14.0

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```
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# 1.168 apache-groovy 4.0.1

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```
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org.codehaus.groovy.jsr223.GroovyScriptEngineFactory
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## 1.169 bucket4j-core 4.4.1

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\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/grid/ReplaceConfigurationOrReturnPreviousCommand.java

\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/BucketExceptions.java  
\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/Bandwidth.java  
\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/Extension.java  
\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/local/LockFreeBucket.java  
\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/ConfigurationBuilder.java  
\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/SimpleBucketListener.java  
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\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/local/LocalBucketBuilder.java  
\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/grid/GetAvailableTokensCommand.java  
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\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/grid/GridBucketState.java  
\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/grid/RecoveryStrategy.java  
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\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/local/FakeLock.java  
\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/IncompatibleConfigurationException.java  
\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/Nothing.java  
\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/AsyncBucket.java  
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\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/local/SynchronizedBucket.java

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\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/BucketState.java  
\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/Bucket4j.java  
\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/BucketConfiguration.java  
\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/grid/ProxyManager.java  
\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/grid/GridProxy.java  
\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/grid/BucketNotFoundException.java  
\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/local/SynchronizationStrategy.java  
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\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/UninterruptibleBlockingStrategy.java  
\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/grid/AddTokensCommand.java  
\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/grid/ReserveAndCalculateTimeToSleepCommand.java  
\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/AsyncScheduledBucket.java  
\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/ConsumptionProbe.java  
\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/io/github/bucket4j/grid/EstimateAbilityToConsumeCommand.java

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\* /opt/cola/permits/1473592299\_1668494641.8532739/0/bucket4j-core-4-4-1-sources-1-jar/META-INF/maven/com.github.vladimir-bukhtoyarov/bucket4j-core/pom.xml

# 1.170 google-guice 4.2.3

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## 1.173 cloudevents---kafka-transport-binding

### 2.2.0

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Found in path(s):

\* /opt/cola/permits/1340816289\_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/META-INF/maven/io.cloudevents/cloudevents-kafka/pom.xml

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```

Found in path(s):

\* /opt/cola/permits/1340816289\_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/io/cloudevents/kafka/CloudEventMessageDeserializer.java  
\* /opt/cola/permits/1340816289\_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/io/cloudevents/kafka/CloudEventMessageSerializer.java  
\* /opt/cola/permits/1340816289\_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/io/cloudevents/kafka/CloudEventSerializer.java  
\* /opt/cola/permits/1340816289\_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/io/cloudevents/kafka/CloudEventDeserializer.java  
\* /opt/cola/permits/1340816289\_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/io/cloudevents/kafka/impl/KafkaBinaryMessageReaderImpl.java  
\* /opt/cola/permits/1340816289\_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/io/cloudevents/kafka/impl/KafkaProducerMessageWriterImpl.java

\* /opt/cola/permits/1340816289\_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/io/cloudevents/kafka/KafkaMessageFactory.java  
\* /opt/cola/permits/1340816289\_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/io/cloudevents/kafka/impl/KafkaHeaders.java  
\* /opt/cola/permits/1340816289\_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/io/cloudevents/kafka/impl/KafkaSerializerMessageWriterImpl.java  
\* /opt/cola/permits/1340816289\_1654861242.1326292/0/cloudevents-kafka-2-2-0-sources-jar/io/cloudevents/kafka/impl/BaseKafkaMessageWriterImpl.java

# 1.174 java-architecture-for-xml-binding 3.0.1

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\* Project: <https://maven.apache.org/resolver/maven-resolver-transport-file/>

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\* Source: <https://github.com/codehaus-plexus/plexus-archiver>

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Sax (0.2)

\* License: SAX-PD

\* Project: <http://www.megginson.com/downloads/SAX/>

\* Source: [http://sourceforge.net/project/showfiles.php?group\\_id=29449](http://sourceforge.net/project/showfiles.php?group_id=29449)

testng (6.14.2)

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\* Project: <https://testng.org/doc/index.html>

\* Source: <https://github.com/cbeust/testng>

wagon-http-lightweight (3.0.0)

\* License: Pending

\* Project: <https://maven.apache.org/wagon/>

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<https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0>

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Manifest-Version: 1.0  
Build-Jdk-Spec: 1.8  
Bundle-Description: A set of class providing Metrics integration for Jersey, the reference JAX-RS implementation.  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>  
Bundle-ManifestVersion: 2  
Bundle-Name: Metrics Integration for Jersey 2.x  
Bundle-SymbolicName: io.dropwizard.metrics.jersey2  
Bundle-Version: 4.1.11  
Created-By: Apache Maven Bundle Plugin  
Export-Package: com.codahale.metrics.jersey2;uses:="com.codahale.metrics.javax.ws.rs.core.javax.ws.rs.ext,org.glassfish.jersey.server.model,org.glassfish.jersey.server.monitoring";version="4.1.11"  
Implementation-Title: Metrics Integration for Jersey 2.x  
Implementation-Version: 4.1.11  
Import-Package: com.codahale.metrics;version="[4.1,5)",com.codahale.metrics.annotation;version="[4.1,5)",javax.ws.rs.core;version="[2.1,3)",javax.ws.rs.ext;version="[2.1,3)",org.glassfish.jersey.server;version="[2.31,3)",org.glassfish.jersey.server.model;version="[2.31,3)",org.glassfish.jersey.server.monitoring;version="[2.31,3)"  
Private-Package: com.codahale.metrics.jersey2  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-5.1.1.202006162103

Found in path(s):

\* /opt/cola/permits/1341130267\_1654768674.741692/0/metrics-jersey2-4-1-11-jar/META-INF/MANIFEST.MF

## 1.177 stax 1.0-2

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/\*\*

\* This describes the interface to Characters events.

\* All text events get reported as Characters events.

\* Content, CDATA and whitespace are all reported as  
\* Characters events. IgnorableWhitespace, in most cases,  
\* will be set to false unless an element declaration of element  
\* content is present for the current element.  
\*  
\* @version 1.0  
\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1005661312\_1609974699.31/0/stax-api-1-0-2-sources-  
jar/src/javax/xml/stream/events/Characters.java

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/\*\*

\* The base exception for unexpected processing errors. This Exception  
\* class is used to report well-formedness errors as well as unexpected  
\* processing conditions.  
\* @version 1.0  
\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.  
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/\*\*

\* The StartElement interface provides access to information about  
\* start elements. A StartElement is reported for each Start Tag  
\* in the document.  
\*  
\* @version 1.0  
\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.  
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jar/src/javax/xml/stream/events/StartElement.java

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/\*\*

\* An interface for comment events  
\*  
\* @version 1.0  
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/\*\*

\* This is the base event interface for handling markup events.

\* Events are value objects that are used to communicate the

\* XML 1.0 InfoSet to the Application. Events may be cached

\* and referenced after the parse has completed.

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\* @see javax.xml.stream.XMLEventReader

\* @see Characters

\* @see ProcessingInstruction

\* @see StartElement

\* @see EndElement

\* @see StartDocument

\* @see EndDocument

\* @see EntityReference

\* @see EntityDeclaration

\* @see NotationDeclaration

\*/

Found in path(s):

\* /opt/cola/permits/1005661312\_1609974699.31/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/events/XMLEvent.java

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

/\*\*

\* An error class for reporting factory configuration errors.

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\*/

Found in path(s):

\* /opt/cola/permits/1005661312\_1609974699.31/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/FactoryConfigurationError.java

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

/\*\*

\* The XMLStreamWriter interface specifies how to write XML. The XMLStreamWriter does

\* not perform well formedness checking on its input. However

\* the writeCharacters method is required to escape &amp; , &lt; and &gt;

\* For attribute values the writeAttribute method will escape the

\* above characters plus &quot; to ensure that all character content

- \* and attribute values are well formed.
- \*
- \* Each NAMESPACE
- \* and ATTRIBUTE must be individually written.
- \*
- \* If javax.xml.stream.isPrefixDefaulting is set to false it is a fatal error if an element
- \* is written with namespace URI that has not been bound to a prefix.
- \*
- \* If javax.xml.stream.isPrefixDefaulting is set to true the XMLStreamWriter implementation
- \* must write a prefix for each unbound URI that it encounters in the
- \* current scope.
- \*
- \* @version 1.0
- \* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
- \* @see XMLOutputFactory
- \* @see XMLStreamReader
- \*/

Found in path(s):

\* /opt/cola/permits/1005661312\_1609974699.31/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/XMLStreamWriter.java

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

/\*\*

- \* Defines an abstract implementation of a factory for getting streams.
- \*
- \* The following table defines the standard properties of this specification.
- \* Each property varies in the level of support required by each implementation.
- \* The level of support required is described in the 'Required' column.
- \*

```
* <table border="2" rules="all" cellpadding="4">
* <thead>
* <tr>
* <th align="center" colspan="5">
* Configuration parameters
* </th>
* </tr>
* </thead>
* <tbody>
* <tr>
* <th>Property Name</th>
* <th>Behavior</th>
* <th>Return type</th>
* <th>Default Value</th>
* <th>Required</th>
* </tr>
* <tr><td>javax.xml.stream.isValidating</td><td>Turns on/off implementation specific DTD
validation</td><td>Boolean</td><td>False</td><td>No</td></tr>
```

```

* <tr><td>javax.xml.stream.isNamespaceAware</td><td>Turns on/off namespace processing for XML 1.0
support</td><td>Boolean</td><td>True</td><td>True (required) / False (optional)</td></tr>
* <tr><td>javax.xml.stream.isCoalescing</td><td>Requires the processor to coalesce adjacent character
data</td><td>Boolean</td><td>False</td><td>Yes</td></tr>
* <tr><td>javax.xml.stream.isReplacingEntityReferences</td><td>replace internal entity references with their
replacement text and report them as characters</td><td>Boolean</td><td>True</td><td>Yes</td></tr>
* <tr><td>javax.xml.stream.isSupportingExternalEntities</td><td>Resolve external parsed
entities</td><td>Boolean</td><td>Unspecified</td><td>Yes</td></tr>
* <tr><td>javax.xml.stream.supportDTD</td><td>Use this property to request processors that do not support
DTDs</td><td>Boolean</td><td>True</td><td>Yes</td></tr>
* <tr><td>javax.xml.stream.reporter</td><td>sets/gets the impl of the XMLReporter
</td><td>javax.xml.stream.XMLReporter</td><td>Null</td><td>Yes</td></tr>
* <tr><td>javax.xml.stream.resolver</td><td>sets/gets the impl of the XMLResolver
interface</td><td>javax.xml.stream.XMLResolver</td><td>Null</td><td>Yes</td></tr>
* <tr><td>javax.xml.stream allocator</td><td>sets/gets the impl of the XMLEventAllocator
interface</td><td>javax.xml.stream.util.XMLEventAllocator</td><td>Null</td><td>Yes</td></tr>
* </tbody>
* </table>
*
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see XMLOutputFactory
* @see XMLEventReader
* @see XMLStreamReader
* @see EventFilter
* @see XMLReporter
* @see XMLResolver
* @see javax.xml.stream.util.XMLEventAllocator
*/

```

Found in path(s):

```

* /opt/cola/permits/1005661312_1609974699.31/0/stax-api-1-0-2-sources-
jar/src/javax/xml/stream/XMLInputFactory.java

```

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

```

/**

```

```

* This is the top level interface for events dealing with DTDs

```

```

*

```

```

* @version 1.0

```

```

* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

```

```

*/

```

Found in path(s):

```

* /opt/cola/permits/1005661312_1609974699.31/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/events/DTD.java

```

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

```

/**

```

```
* This is the base class for deriving an XMLStreamReader filter
*
* This class is designed to sit between an XMLStreamReader and an
* application's XMLStreamReader. By default each method
* does nothing but call the corresponding method on the
* parent interface.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see javax.xml.stream.XMLStreamReader
* @see EventReaderDelegate
*/
```

Found in path(s):

```
* /opt/cola/permits/1005661312_1609974699.31/0/stax-api-1-0-2-sources-
jar/src/javax/xml/stream/util/StreamReaderDelegate.java
```

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

```
/**
*
* This is the top level interface for parsing XML Events. It provides
* the ability to peek at the next event and returns configuration
* information through the property interface.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see XMLInputFactory
* @see XMLEventWriter
*/
```

Found in path(s):

```
* /opt/cola/permits/1005661312_1609974699.31/0/stax-api-1-0-2-sources-
jar/src/javax/xml/stream/XMLEventReader.java
```

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

```
/**
* This interface is used to report non-fatal errors.
* Only warnings should be echoed through this interface.
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/
```

Found in path(s):

```
* /opt/cola/permits/1005661312_1609974699.31/0/stax-api-1-0-2-sources-
jar/src/javax/xml/stream/XMLReporter.java
```

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

```
/**
```

\* This interface is used to resolve resources during an XML parse. If an application wishes to  
\* perform custom entity resolution it must register an instance of this interface with  
\* the XMLInputFactory using the setXMLResolver method.  
\*  
\* @version 1.0  
\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1005661312\_1609974699.31/0/stax-api-1-0-2-sources-  
jar/src/javax/xml/stream/XMLResolver.java

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

/\*\*

\*

\* This is the top level interface for writing XML documents.

\*

\* Instances of this interface are not required to validate the  
\* form of the XML.

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\* @see XMLEventReader

\* @see javax.xml.stream.events.XMLEvent

\* @see javax.xml.stream.events.Characters

\* @see javax.xml.stream.events.ProcessingInstruction

\* @see javax.xml.stream.events.StartElement

\* @see javax.xml.stream.events.EndElement

\*/

Found in path(s):

\* /opt/cola/permits/1005661312\_1609974699.31/0/stax-api-1-0-2-sources-  
jar/src/javax/xml/stream/XMLEventWriter.java

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

/\*\*

\* This is the base class for deriving an XMLEventReader  
\* filter.

\*

\* This class is designed to sit between an XMLEventReader and an  
\* application's XMLEventReader. By default each method  
\* does nothing but call the corresponding method on the  
\* parent interface.

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.

\* @see javax.xml.stream.XMLEventReader

\* @see StreamReaderDelegate

\*/

Found in path(s):

\* /opt/cola/permits/1005661312\_1609974699.31/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/util/EventReaderDelegate.java

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

/\*\*

\* Defines an abstract implementation of a factory for  
\* getting XMLEventWriters and XMLStreamWriters.

\*

\* The following table defines the standard properties of this specification.  
\* Each property varies in the level of support required by each implementation.  
\* The level of support required is described in the 'Required' column.

\*

\* <table border="2" rules="all" cellpadding="4">

\* <thead>

\* <tr>

\* <th align="center" colspan="2">

\* Configuration parameters

\* </th>

\* </tr>

\* </thead>

\* <tbody>

\* <tr>

\* <th>Property Name</th>

\* <th>Behavior</th>

\* <th>Return type</th>

\* <th>Default Value</th>

\* <th>Required</th>

\* </tr>

\* <tr><td>javax.xml.stream.isRepairingNamespaces</td><td>defaults prefixes on the output  
side</td><td>Boolean</td><td>False</td><td>Yes</td></tr>

\* </tbody>

\* </table>

\*

\* <p>The following paragraphs describe the namespace and prefix repair algorithm:</p>

\*

\* <p>The property can be set with the following code line:

\* <code>setProperty("javax.xml.stream.isRepairingNamespaces",new Boolean(true|false));</code></p>

\*

\* <p>This property specifies that the writer default namespace prefix declarations.

\* The default value is false. </p>

\*

\* <p>If a writer isRepairingNamespaces it will create a namespace declaration

\* on the current StartElement for

\* any attribute that does not

\* currently have a namespace declaration in scope. If the StartElement

\* has a uri but no prefix specified a prefix will be assigned, if the prefix  
 \* has not been declared in a parent of the current StartElement it will be declared  
 \* on the current StartElement. If the defaultNamespace is bound and in scope  
 \* and the default namespace matches the URI of the attribute or StartElement  
 \* QName no prefix will be assigned.</p>  
 \*  
 \* <p>If an element or attribute name has a prefix, but is not  
 \* bound to any namespace URI, then the prefix will be removed  
 \* during serialization.</p>  
 \*  
 \* <p>If element and/or attribute names in the same start or  
 \* empty-element tag are bound to different namespace URIs and  
 \* are using the same prefix then the element or the first  
 \* occurring attribute retains the original prefix and the  
 \* following attributes have their prefixes replaced with a  
 \* new prefix that is bound to the namespace URIs of those  
 \* attributes. </p>  
 \*  
 \* <p>If an element or attribute name uses a prefix that is  
 \* bound to a different URI than that inherited from the  
 \* namespace context of the parent of that element and there  
 \* is no namespace declaration in the context of the current  
 \* element then such a namespace declaration is added. </p>  
 \*  
 \* <p>If an element or attribute name is bound to a prefix and  
 \* there is a namespace declaration that binds that prefix  
 \* to a different URI then that namespace declaration is  
 \* either removed if the correct mapping is inherited from  
 \* the parent context of that element, or changed to the  
 \* namespace URI of the element or attribute using that prefix.</p>  
 \*  
 \* @version 1.0  
 \* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.  
 \* @see XMLInputFactory  
 \* @see XMLEventWriter  
 \* @see XMLStreamWriter  
 \*/

Found in path(s):

\* /opt/cola/permits/1005661312\_1609974699.31/0/stax-api-1-0-2-sources-  
 jar/src/javax/xml/stream/XMLOutputFactory.java

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

/\*\*

\* An interface that contains information about a namespace.

\* Namespaces are accessed from a StartElement.

\*

\* @version 1.0

\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.  
\* @see StartElement  
\*/

Found in path(s):

\*/opt/cola/permits/1005661312\_1609974699.31/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/events/Namespace.java

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

/\*\*

\* The XMLStreamReader interface allows forward, read-only access to XML.  
\* It is designed to be the lowest level and most efficient way to  
\* read XML data.  
\*  
\* <p> The XMLStreamReader is designed to iterate over XML using  
\* next() and hasNext(). The data can be accessed using methods such as getEventType(),  
\* getNamespaceURI(), getLocalName() and getText();  
\*  
\* <p> The <a href="#next()">next()</a> method causes the reader to read the next parse event.  
\* The next() method returns an integer which identifies the type of event just read.  
\* <p> The event type can be determined using <a href="#getEventType()">getEventType()</a>.  
\* <p> Parsing events are defined as the XML Declaration, a DTD,  
\* start tag, character data, white space, end tag, comment,  
\* or processing instruction. An attribute or namespace event may be encountered  
\* at the root level of a document as the result of a query operation.  
\*  
\* <p>For XML 1.0 compliance an XML processor must pass the  
\* identifiers of declared unparsed entities, notation declarations and their  
\* associated identifiers to the application. This information is  
\* provided through the property API on this interface.  
\* The following two properties allow access to this information:  
\* javax.xml.stream.notation and javax.xml.stream.entities.  
\* When the current event is a DTD the following call will return a  
\* list of Notations  
\* <code>List l = (List) getProperty("javax.xml.stream.notation");</code>  
\* The following call will return a list of entity declarations:  
\* <code>List l = (List) getProperty("javax.xml.stream.entities");</code>  
\* These properties can only be accessed during a DTD event and  
\* are defined to return null if the information is not available.  
\*  
\* <p>The following table describes which methods are valid in what state.  
\* If a method is called in an invalid state the method will throw a  
\* java.lang.IllegalStateException.  
\*  
\* <table border="2" rules="all" cellpadding="4">  
\* <thead>  
\* <tr>  
\* <th align="center" colspan="2">

```

* Valid methods for each state
* </th>
* </tr>
* </thead>
* <tbody>
* <tr>
* <th>Event Type</th>
* <th>Valid Methods</th>
* </tr>
* <tr>
* <td> All States </td>
* <td> getProperty(), hasNext(), require(), close(),
* getNamespaceURI(), isStartElement(),
* isEndElement(), isCharacters(), isWhiteSpace(),
* getNamespaceContext(), getEventType(),getLocation(),
* hasText(), hasName()
* </td>
* </tr>
* <tr>
* <td> START_ELEMENT </td>
* <td> next(), getName(), getLocalName(), hasName(), getPrefix(),
* getAttributeXXX(), isAttributeSpecified(),
* getNamespaceXXX(),
* getElementText(), nextTag()
* </td>
* </tr>
* <td> ATTRIBUTE </td>
* <td> next(), nextTag()
* getAttributeXXX(), isAttributeSpecified(),
* </td>
* </tr>
* <td> NAMESPACE </td>
* <td> next(), nextTag()
* getNamespaceXXX()
* </td>
* </tr>
* <td> END_ELEMENT </td>
* <td> next(), getName(), getLocalName(), hasName(), getPrefix(),
* getNamespaceXXX(), nextTag()
* </td>
* </tr>
* <td> CHARACTERS </td>
* <td> next(), getTextXXX(), nextTag() </td>
* </tr>
* </tr>

```

```

* <td> CDATA </td>
* <td> next(), getTextXXX(), nextTag() </td>
* </tr>
* <tr>
* <td> COMMENT </td>
* <td> next(), getTextXXX(), nextTag() </td>
* </tr>
* <tr>
* <td> SPACE </td>
* <td> next(), getTextXXX(), nextTag() </td>
* </tr>
* <tr>
* <td> START_DOCUMENT </td>
* <td> next(), getEncoding(), getVersion(), isStandalone(), standaloneSet(),
* getCharacterEncodingScheme(), nextTag()</td>
* </tr>
* <tr>
* <td> END_DOCUMENT </td>
* <td> close()</td>
* </tr>
* <tr>
* <td> PROCESSING_INSTRUCTION </td>
* <td> next(), getPItarget(), getPIData(), nextTag() </td>
* </tr>
* <tr>
* <td> ENTITY_REFERENCE </td>
* <td> next(), getLocalName(), getText(), nextTag() </td>
* </tr>
* <tr>
* <td> DTD </td>
* <td> next(), getText(), nextTag() </td>
* </tr>
* </tbody>
* </table>
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
* @see javax.xml.stream.events.XMLEvent
* @see XMLInputFactory
* @see XMLStreamWriter
*/

```

Found in path(s):

```

* /opt/cola/permits/1005661312_1609974699.31/0/stax-api-1-0-2-sources-
jar/src/javax/xml/stream/XMLStreamReader.java

```

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

```

/**

```

```
* A marker interface for the end of the document
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/
```

Found in path(s):

```
* /opt/cola/permits/1005661312_1609974699.31/0/stax-api-1-0-2-sources-
jar/src/javax/xml/stream/events/EndDocument.java
No license file was found, but licenses were detected in source scan.
```

```
/**
```

```
* An interface for handling Entity events.
*
* This event reports entities that have not been resolved
* and reports their replacement text unprocessed (if
* available). This event will be reported if javax.xml.stream.isReplacingEntityReferences
* is set to false. If javax.xml.stream.isReplacingEntityReferences is set to true
* entity references will be resolved transparently.
*
* Entities are handled in two possible ways:
*
* (1) If javax.xml.stream.isReplacingEntityReferences is set to true
* all entity references are resolved and reported as markup transparently.
* (2) If javax.xml.stream.isReplacingEntityReferences is set to false
* Entity references are reported as an EntityReference Event.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/
```

Found in path(s):

```
* /opt/cola/permits/1005661312_1609974699.31/0/stax-api-1-0-2-sources-
jar/src/javax/xml/stream/events/EntityReference.java
No license file was found, but licenses were detected in source scan.
```

```
/**
```

```
* Provides information on the location of an event.
*
* All the information provided by a Location is optional. For example
* an application may only report line numbers.
*
* @version 1.0
* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
*/
```

Found in path(s):

```
* /opt/cola/permits/1005661312_1609974699.31/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/Location.java
```

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

```
/**
 * This interface defines a class that allows a user to register
 * a way to allocate events given an XMLStreamReader. An implementation
 * is not required to use the XMLEventFactory implementation but this
 * is recommended. The XMLEventAllocator can be set on an XMLInputFactory
 * using the property "javax.xml.stream.allocator"
 *
 * @version 1.0
 * @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
 * @see javax.xml.stream.XMLInputFactory
 * @see javax.xml.stream.XMLEventFactory
 */
```

Found in path(s):

```
* /opt/cola/permits/1005661312_1609974699.31/0/stax-api-1-0-2-sources-
jar/src/javax/xml/stream/util/XMLEventAllocator.java
```

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

```
/**
 * An interface for the end element event. An EndElement is reported
 * for each End Tag in the document.
 *
 * @version 1.0
 * @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
 * @see XMLEvent
 */
```

Found in path(s):

```
* /opt/cola/permits/1005661312_1609974699.31/0/stax-api-1-0-2-sources-
jar/src/javax/xml/stream/events/EndElement.java
```

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

```
/**
 * This interface defines an event consumer interface. The contract of the
 * of a consumer is to accept the event. This interface can be used to
 * mark an object as able to receive events. Add may be called several
 * times in immediate succession so a consumer must be able to cache
 * events it hasn't processed yet.
 *
 * @version 1.0
 * @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
 */
```

Found in path(s):

```
* /opt/cola/permits/1005661312_1609974699.31/0/stax-api-1-0-2-sources-
jar/src/javax/xml/stream/util/XMLEventConsumer.java
```

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

```
/**
 * An interface for handling Entity Declarations
 *
 * This interface is used to record and report unparsed entity declarations.
 *
 * @version 1.0
 * @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
 */
```

Found in path(s):

\* /opt/cola/permits/1005661312\_1609974699.31/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/events/EntityDeclaration.java

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

```
/**
 * This interface declares a simple filter interface that one can
 * create to filter XMLEventReaders
 *
 * @version 1.0
 * @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
 */
```

Found in path(s):

\* /opt/cola/permits/1005661312\_1609974699.31/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/EventFilter.java

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

```
/**
 * An interface that describes the data found in processing instructions
 *
 * @version 1.0
 * @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
 */
```

Found in path(s):

\* /opt/cola/permits/1005661312\_1609974699.31/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/events/ProcessingInstruction.java

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

```
/**
 * This interface declares a simple filter interface that one can
 * create to filter XMLStreamReaders
 *
 * @version 1.0
 * @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.
 */
```

Found in path(s):

\* /opt/cola/permits/1005661312\_1609974699.31/0/stax-api-1-0-2-sources-

jar/src/javax/xml/stream/StreamFilter.java

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

/\*\*

\* An interface for handling Notation Declarations  
\*  
\* Receive notification of a notation declaration event.  
\* It is up to the application to record the notation for later reference,  
\* At least one of publicId and systemId must be non-null.  
\* There is no guarantee that the notation declaration  
\* will be reported before any unparsed entities that use it.  
\*  
\* @version 1.0  
\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1005661312\_1609974699.31/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/events/NotationDeclaration.java

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

/\*\*

\* An interface for the start document event  
\*  
\* @version 1.0  
\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.  
\*/

Found in path(s):

\* /opt/cola/permits/1005661312\_1609974699.31/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/events/StartDocument.java

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

/\*\*

\* This interface defines a utility class for creating instances of  
\* XMLEvents  
\* @version 1.0  
\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.  
\* @see javax.xml.stream.events.StartElement  
\* @see javax.xml.stream.events.EndElement  
\* @see javax.xml.stream.events.ProcessingInstruction  
\* @see javax.xml.stream.events.Comment  
\* @see javax.xml.stream.events.Characters  
\* @see javax.xml.stream.events.StartDocument  
\* @see javax.xml.stream.events.EndDocument  
\* @see javax.xml.stream.events.DTD  
\*/

Found in path(s):

\* /opt/cola/permits/1005661312\_1609974699.31/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/XMLEventFactory.java

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

/\*\*

\* An interface that contains information about an attribute. Attributes are reported  
\* as a set of events accessible from a StartElement. Other applications may report  
\* Attributes as first-order events, for example as the results of an XPath expression.  
\*  
\* @version 1.0  
\* @author Copyright (c) 2003 by BEA Systems. All Rights Reserved.  
\* @see StartElement  
\*/

Found in path(s):

\* /opt/cola/permits/1005661312\_1609974699.31/0/stax-api-1-0-2-sources-jar/src/javax/xml/stream/events/Attribute.java

## 1.178 hdrhistogram 2.1.9

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## 1.179 curator-framework 5.2.1

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```

Found in path(s):

```
* /opt/cola/permits/1140654602_1650660689.07/0/opentest4j-1-1-1-sources-jar/org/opentest4j/ValueWrapper.java
* /opt/cola/permits/1140654602_1650660689.07/0/opentest4j-1-1-1-sources-
jar/org/opentest4j/TestAbortedException.java
* /opt/cola/permits/1140654602_1650660689.07/0/opentest4j-1-1-1-sources-
jar/org/opentest4j/AssertionFailedError.java
* /opt/cola/permits/1140654602_1650660689.07/0/opentest4j-1-1-1-sources-
jar/org/opentest4j/MultipleFailuresError.java
* /opt/cola/permits/1140654602_1650660689.07/0/opentest4j-1-1-1-sources-
jar/org/opentest4j/TestSkippedException.java
* /opt/cola/permits/1140654602_1650660689.07/0/opentest4j-1-1-1-sources-
jar/org/opentest4j/IncompleteExecutionException.java
```

# 1.181 dropwizard-validation-support 2.0.12

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```

Found in path(s):

```
*/opt/cola/permits/1343419565_1655661636.7344434/0/kotlin-stdlib-jdk7-1-6-21-sources-jar/kotlin/AutoCloseable.kt
```

## 1.183 gmbal 4.0.3

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# 1.185 junit-jupiter-junit-jupiter-params 5.8.2

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* /opt/cola/permits/1473598143_1668796786.5917041/0/swagger-annotations-2-1-1-sources-1-
jar/io/swagger/v3/oas/annotations/links/Link.java
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jar/io/swagger/v3/oas/annotations/info/Contact.java  
\* /opt/cola/permits/1473598143\_1668796786.5917041/0/swagger-annotations-2-1-1-sources-1-  
jar/io/swagger/v3/oas/annotations/info/Info.java  
\* /opt/cola/permits/1473598143\_1668796786.5917041/0/swagger-annotations-2-1-1-sources-1-  
jar/io/swagger/v3/oas/annotations/media/Content.java  
\* /opt/cola/permits/1473598143\_1668796786.5917041/0/swagger-annotations-2-1-1-sources-1-  
jar/io/swagger/v3/oas/annotations/servers/Servers.java  
\* /opt/cola/permits/1473598143\_1668796786.5917041/0/swagger-annotations-2-1-1-sources-1-  
jar/io/swagger/v3/oas/annotations/OpenAPIDefinition.java  
\* /opt/cola/permits/1473598143\_1668796786.5917041/0/swagger-annotations-2-1-1-sources-1-  
jar/io/swagger/v3/oas/annotations/servers/Server.java  
\* /opt/cola/permits/1473598143\_1668796786.5917041/0/swagger-annotations-2-1-1-sources-1-  
jar/io/swagger/v3/oas/annotations/extensions/Extensions.java  
\* /opt/cola/permits/1473598143\_1668796786.5917041/0/swagger-annotations-2-1-1-sources-1-  
jar/io/swagger/v3/oas/annotations/media/DiscriminatorMapping.java  
\* /opt/cola/permits/1473598143\_1668796786.5917041/0/swagger-annotations-2-1-1-sources-1-  
jar/io/swagger/v3/oas/annotations/Parameter.java  
\* /opt/cola/permits/1473598143\_1668796786.5917041/0/swagger-annotations-2-1-1-sources-1-  
jar/io/swagger/v3/oas/annotations/security/SecurityRequirement.java

# 1.187 glassfish-ssl-implementation-module

## 6.2.4

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# 1.189 micronaut 3.5.0

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```
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* /opt/cola/permits/1473601653_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/ConstraintTarget.java
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* /opt/cola/permits/1473601653_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/constraints/Size.java
* /opt/cola/permits/1473601653_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/spi/BootstrapState.java
* /opt/cola/permits/1473601653_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/GroupSequence.java
* /opt/cola/permits/1473601653_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/constraintvalidation/ValidationTarget.java
* /opt/cola/permits/1473601653_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/groups/Default.java
* /opt/cola/permits/1473601653_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/metadata/MethodDescriptor.java
```

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/valueextraction/UnwrapByDefault.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/valueextraction/ValueExtractor.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/metadata/ConstraintDescriptor.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/ValidationProviderResolver.java

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\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/TraversableResolver.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/constraintvalidation/SupportedValidationTarget.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/ValidatorFactory.java

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\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/metadata/ReturnValueDescriptor.java

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\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/ElementKind.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/valueextraction/ValueExtractorDefinitionException.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/bootstrap/GenericBootstrap.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/valueextraction/package-info.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/spi/package-info.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/constraints/Null.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/metadata/ParameterDescriptor.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/MessageInterpolator.java

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\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/metadata/CascadableDescriptor.java

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\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/ConstraintViolationException.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/ConstraintValidator.java

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\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/constraints/Pattern.java

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\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/constraintvalidation/package-info.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/executable/package-info.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/package-info.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/ValidatorContext.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/constraints/PastOrPresent.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/Payload.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/valueextraction/Unwrapping.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/ValidationException.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/constraints/PositiveOrZero.java

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\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/metadata/ValidateUnwrappedValue.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/constraints/FutureOrPresent.java

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\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/metadata/ContainerElementTypeDescriptor.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/ConstraintDeclarationException.java

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\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/valueextraction/ExtractedValue.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/GroupDefinitionException.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/metadata/MethodType.java

\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/ConstraintValidatorContext.java

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\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/metadata/CrossParameterDescriptor.java  
\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/UnexpectedTypeException.java  
\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/groups/ConvertGroup.java  
\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/metadata/ContainerDescriptor.java  
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\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/constraints/Email.java  
\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/metadata/BeanDescriptor.java  
\* /opt/cola/permits/1473601653\_1668801586.8576262/0/jakarta-validation-api-3-0-0-sources-jar/jakarta/validation/Configuration.java  
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# 1.194 maven-default-project 4.1.2

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```

```
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```
* /opt/cola/permits/1473577692_1668803385.8276865/0/netty-tcnative-classes-2-0-52-final-jar/META-INF/maven/io.netty/netty-tcnative-classes/pom.xml
```

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Manifest-Version: 1.0

Implementation-Title: Netty/TomcatNative [OpenSSL - Classes]

Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is dynamically linked to OpenSSL and Apache APR.

Automatic-Module-Name: io.netty.tcnative.classes.openssl

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Bundle-SymbolicName: io.netty.tcnative-classes

Implementation-Version: 2.0.52.Final

Built-By: norman

Bnd-LastModified: 1651736603997

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-5.1.1.202006162103

Implementation-Vendor: The Netty Project

Export-Package: io.netty.internal.tcnative;version="2.0.52"

Bundle-Name: Netty/TomcatNative [OpenSSL - Classes]

Bundle-Version: 2.0.52.Final

Build-Jdk-Spec: 1.8

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_252

Implementation-URL: <https://github.com/netty/netty-tcnative/netty-tcnative-classes/>

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\* /opt/cola/permits/1473577692\_1668803385.8276865/0/netty-tcnative-classes-2-0-52-final-jar/META-INF/MANIFEST.MF

# 1.199 aws-sdk-for-java---bom 1.12.223

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```
* /opt/cola/permits/1274699876_1645234767.83/0/feign-jackson-8-18-0-sources-
jar/feign/jackson/JacksonEncoder.java
* /opt/cola/permits/1274699876_1645234767.83/0/feign-jackson-8-18-0-sources-
jar/feign/jackson/JacksonDecoder.java
```

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Manifest-Version: 1.0

Implementation-Title: Netty/Codec/HTTP

Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.

Automatic-Module-Name: io.netty.codec.http

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.codec-http

Implementation-Version: 4.1.84.Final

Built-By: chris

Bnd-LastModified: 1665536154725

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: com.aayushatharva.brotli4j.encoder;resolution:=optional,

com.jcraft.jzlib;resolution:=optional,io.netty.buffer;version="[4.1

,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.embedded;version="[4.1,5)",io.netty.handler.codec,io.netty.handler.codec.base64;version="[4.1,5)",io.netty.handler.codec.compression;version="[4.1,5)",io.netty.handler.ssl;version="[4.1,5)",io.netty.handler.stream;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package: io.netty.handler.codec.http;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.embedded,io.netty.handler.codec,io.netty.handler.codec.compression,io.netty.handler.codec.http.cookie,io.netty.handler.stream,io.netty.util";version="4.1.84",io.netty.handler.codec.http.cookie;version="4.1.84",io.netty.handler.codec.http.cors;uses:="io.netty.channel,io.netty.handler.codec.http";version="4.1.84",io.netty.handler.codec.http.multipart;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http,io.netty.handler.stream,io.netty.util";version="4.1.84",io.netty.handler.codec.http.websocketx;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http,io.netty.handler.stream,io.netty.util,io.netty.util.internal.logging";version="4.1.84",io.netty.handler.codec.http.websocketx.extensions;uses:="io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http.websocketx";version="4.1.84",io.netty.handler.codec.http.websocketx.extensions.compression;uses:="io.netty.channel,io.netty.handler.codec.http.websocketx.extensions";version="4.1.84",io.netty.handler.codec.rtsp;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec.http,io.netty.util";version="4.1.84",io.netty.handler.codec.spdy;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http,io.netty.util";version="4.1.84"  
Bundle-Name: Netty/Codec/HTTP  
Bundle-Version: 4.1.84.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_312  
Implementation-URL: <https://netty.io/netty-codec-http/>

Found in path(s):

\* /opt/cola/permits/1470281385\_1668115980.505427/0/netty-codec-http-4-1-84-final-jar/META-INF/MANIFEST.MF

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\* /opt/cola/permits/1470281385\_1668115980.505427/0/netty-codec-http-4-1-84-final-jar/META-INF/maven/io.netty/netty-codec-http/pom.xml

# 1.205 jersey-ext-bean-validation 2.31

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## 1.206 micronaut-grpc 3.3.0

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## 1.207 junit 4.13.2

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## 1.208 jackson-datatype-joda 2.14.0

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## 1.210 jakarta-annotations-api 2.1.0-B1

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* /opt/cola/permits/1470278818_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-2-jar/io/netty/channel/unix/Socket.java
* /opt/cola/permits/1470278818_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-2-jar/io/netty/channel/unix/FileDescriptor.java
* /opt/cola/permits/1470278818_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-2-jar/netty_unix_filedescriptor.c
* /opt/cola/permits/1470278818_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-2-jar/netty_unix_socket.c
* /opt/cola/permits/1470278818_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-2-jar/netty_unix_errors.c
* /opt/cola/permits/1470278818_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-2-jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/cola/permits/1470278818_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-2-jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1470278818_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-2-jar/io/netty/channel/unix/DatagramSocketAddress.java
* /opt/cola/permits/1470278818_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-2-jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1470278818_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-2-jar/netty_unix_errors.h
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* /opt/cola/permits/1470278818_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-2-jar/io/netty/channel/unix/Errors.java
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* /opt/cola/permits/1470278818_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-
```

2-jar/io/netty/channel/unix/DomainSocketReadMode.java

\* /opt/cola/permits/1470278818\_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-

2-jar/io/netty/channel/unix/DomainSocketAddress.java

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- \* /opt/cola/permits/1470278818\_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-2-jar/io/netty/channel/unix/IovArray.java

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- \* /opt/cola/permits/1470278818\_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-2-jar/netty\_unix\_util.c
- \* /opt/cola/permits/1470278818\_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-2-jar/io/netty/channel/unix/PeerCredentials.java
- \* /opt/cola/permits/1470278818\_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-2-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
- \* /opt/cola/permits/1470278818\_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-2-jar/netty\_unix\_util.h
- \* /opt/cola/permits/1470278818\_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-2-jar/netty\_unix\_limits.c
- \* /opt/cola/permits/1470278818\_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-2-jar/io/netty/channel/unix/Limits.java
- \* /opt/cola/permits/1470278818\_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-2-jar/netty\_unix\_limits.h
- \* /opt/cola/permits/1470278818\_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-2-jar/io/netty/channel/unix/SocketWritableByteChannel.java

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* /opt/cola/permits/1470278818_1668107860.126395/0/netty-transport-native-unix-common-4-1-84-final-sources-2-jar/netty_unix_jni.h
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The initial code for shuffling an array (originally in class "org.apache.commons.math3.random.RandomDataGenerator", now replaced by a method in class "org.apache.commons.math3.util.MathArrays") was inspired from the algorithm description provided in "Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999). The textbook (containing a proof that the shuffle is uniformly random) is available here:  
<http://citeseerx.ist.psu.edu/viewdoc/download;?doi=10.1.1.173.1898&rep=rep1&type=pdf>

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```
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jar/io/grpc/protobuf/ProtoMethodDescriptorSupplier.java
* /opt/cola/permits/1427929550_1664343705.086969/0/grpc-protobuf-1-46-0-sources-
jar/io/grpc/protobuf/ProtoServiceDescriptorSupplier.java
* /opt/cola/permits/1427929550_1664343705.086969/0/grpc-protobuf-1-46-0-sources-jar/io/grpc/protobuf/package-
info.java
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```
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*/opt/cola/permits/1427929550_1664343705.086969/0/grpc-protobuf-1-46-0-sources-
jar/io/grpc/protobuf/ProtoUtils.java
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```

\* /opt/cola/permits/1473577620\_1668493673.200625/0/hystrix-codahale-metrics-publisher-1-5-18-sources-jar/com/netflix/hystrix/contrib/codahalemetricspublisher/HystrixCodaHaleMetricsPublisher.java  
\* /opt/cola/permits/1473577620\_1668493673.200625/0/hystrix-codahale-metrics-publisher-1-5-18-sources-jar/com/netflix/hystrix/contrib/codahalemetricspublisher/HystrixCodaHaleMetricsPublisherCollapser.java  
\* /opt/cola/permits/1473577620\_1668493673.200625/0/hystrix-codahale-metrics-publisher-1-5-18-sources-jar/com/netflix/hystrix/contrib/codahalemetricspublisher/HystrixCodaHaleMetricsPublisherCommand.java

## 1.230 jackson-jaxrs-base 2.14.0

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## 1.231 class-model-for-hk2 3.0.2

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```
* /opt/cola/permits/1274701436_1645235201.06/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/inf/ArgumentType.java
* /opt/cola/permits/1274701436_1645235201.06/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/inf/ArgumentParser.java
* /opt/cola/permits/1274701436_1645235201.06/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/helper/CJKTextWidthCounter.java
* /opt/cola/permits/1274701436_1645235201.06/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/impl/action/HelpArgumentAction.java
* /opt/cola/permits/1274701436_1645235201.06/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/helper/PrefixPattern.java
* /opt/cola/permits/1274701436_1645235201.06/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/helper/TextWidthCounter.java
* /opt/cola/permits/1274701436_1645235201.06/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/internal/UnrecognizedArgumentException.java
* /opt/cola/permits/1274701436_1645235201.06/0/argparse4j-0-8-1-sources-
jar/net/sourceforge/argparse4j/annotation/Arg.java
* /opt/cola/permits/1274701436_1645235201.06/0/argparse4j-0-8-1-sources-
```

jar/net/sourceforge/argparse4j/inf/ArgumentParserException.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/StoreConstArgumentAction.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/ArgumentAction.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/Arguments.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/ArgumentGroup.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/Subparsers.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/helper/ReflectHelper.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/UnrecognizedCommandException.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/StoreArgumentAction.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/Namespace.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/choice/CollectionArgumentChoice.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/ArgumentParsers.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/ArgumentParserImpl.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/StoreFalseArgumentAction.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/AppendConstArgumentAction.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/ArgumentGroupImpl.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/Argument.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/ArgumentChoice.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/FeatureControl.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/choice/RangeArgumentChoice.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/SubparsersImpl.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/SubparserImpl.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/inf/Subparser.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/type/StringArgumentType.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-

jar/net/sourceforge/argparse4j/impl/action/AppendArgumentAction.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/helper/ASCIITextWidthCounter.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/type/FileVerification.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/helper/TextHelper.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/type/EnumArgumentType.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/StoreTrueArgumentAction.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/type/ConstructorArgumentType.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/ParseState.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/internal/ArgumentImpl.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/VersionArgumentAction.java  
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jar/net/sourceforge/argparse4j/impl/type/CaseInsensitiveEnumStringArgumentType.java

\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/impl/type/CaseInsensitiveEnumNameArgumentType.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/impl/type/EnumStringArgumentType.java  
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\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/impl/type/BooleanArgumentType.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/inf/MetavarInference.java

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jar/net/sourceforge/argparse4j/impl/type/FileArgumentType.java

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\*/opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/helper/HelpScreenException.java

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\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/action/CountArgumentAction.java  
\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-  
jar/net/sourceforge/argparse4j/impl/type/ReflectArgumentType.java  
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\* /opt/cola/permits/1274701436\_1645235201.06/0/argparse4j-0-8-1-sources-jar/net/sourceforge/argparse4j/internal/TerminalWidth.java

## 1.233 apache-commons-configuration 1.8

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```
* /opt/cola/permits/1427929633_1664341330.19386/0/micronaut-microstream-1-0-0-m1-sources-
jar/io/micronaut/microstream/conf/package-info.java
* /opt/cola/permits/1427929633_1664341330.19386/0/micronaut-microstream-1-0-0-m1-sources-
jar/io/micronaut/microstream/conf/EmbeddedStorageConfigurationProvider.java
* /opt/cola/permits/1427929633_1664341330.19386/0/micronaut-microstream-1-0-0-m1-sources-
jar/io/micronaut/microstream/DefaultRootProvider.java
* /opt/cola/permits/1427929633_1664341330.19386/0/micronaut-microstream-1-0-0-m1-sources-
jar/io/micronaut/microstream/conf/StorageManagerFactory.java
* /opt/cola/permits/1427929633_1664341330.19386/0/micronaut-microstream-1-0-0-m1-sources-
jar/io/micronaut/microstream/health/package-info.java
* /opt/cola/permits/1427929633_1664341330.19386/0/micronaut-microstream-1-0-0-m1-sources-
jar/io/micronaut/microstream/conf/EmbeddedStorageFoundationFactory.java
* /opt/cola/permits/1427929633_1664341330.19386/0/micronaut-microstream-1-0-0-m1-sources-
jar/io/micronaut/microstream/package-info.java
* /opt/cola/permits/1427929633_1664341330.19386/0/micronaut-microstream-1-0-0-m1-sources-
jar/io/micronaut/microstream/RootProvider.java
* /opt/cola/permits/1427929633_1664341330.19386/0/micronaut-microstream-1-0-0-m1-sources-
jar/io/micronaut/microstream/metrics/MicroStreamMetricsBinder.java
* /opt/cola/permits/1427929633_1664341330.19386/0/micronaut-microstream-1-0-0-m1-sources-
jar/io/micronaut/microstream/interceptors/package-info.java
* /opt/cola/permits/1427929633_1664341330.19386/0/micronaut-microstream-1-0-0-m1-sources-
jar/io/micronaut/microstream/conf/MicroStreamConfigurationProperties.java
* /opt/cola/permits/1427929633_1664341330.19386/0/micronaut-microstream-1-0-0-m1-sources-
jar/io/micronaut/microstream/conf/DefaultEmbeddedStorageConfigurationProvider.java
```

\* /opt/cola/permits/1427929633\_1664341330.19386/0/micronaut-microstream-1-0-0-m1-sources-jar/io/micronaut/microstream/health/MicroStreamHealthIndicator.java  
\* /opt/cola/permits/1427929633\_1664341330.19386/0/micronaut-microstream-1-0-0-m1-sources-jar/io/micronaut/microstream/conf/MicroStreamConfiguration.java  
\* /opt/cola/permits/1427929633\_1664341330.19386/0/micronaut-microstream-1-0-0-m1-sources-jar/io/micronaut/microstream/health/MicroStreamHealth.java  
\* /opt/cola/permits/1427929633\_1664341330.19386/0/micronaut-microstream-1-0-0-m1-sources-jar/io/micronaut/microstream/metrics/package-info.java  
\* /opt/cola/permits/1427929633\_1664341330.19386/0/micronaut-microstream-1-0-0-m1-sources-jar/io/micronaut/microstream/interceptors/StorageInterceptorException.java  
\* /opt/cola/permits/1427929633\_1664341330.19386/0/micronaut-microstream-1-0-0-m1-sources-jar/io/micronaut/microstream/interceptors/StoreInterceptor.java

## 1.236 micronaut-servlet 3.2.2

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```

Found in path(s):

\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletCookies.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletResponseFactory.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/encoders/StreamFileEncoder.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletRequestBinder.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/StreamedServletMessage.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletHttpHandler.java

\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletBodyBinder.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletRequestAndBody.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/DefaultServletExchange.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletExchange.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/encoders/AbstractFileEncoder.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletResponseEncoder.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/encoders/FileEncoder.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletHttpResponse.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletBinderRegistry.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletHttpRequest.java  
\* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/encoders/SystemFileEncoder.java

## 1.237 joda-time 2.9.7

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# 1.238 jetty-java-based-http-1-x-http-2-servlet-websocket-server 11.0.12

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<head>
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<link rel="stylesheet" href="resources/doc.css" charset="UTF-8" type="text/css" />
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\* /opt/cola/permits/1337069512\_1654218326.7907567/0/proto-google-common-protos-2-0-1-1-jar/google/api/monitored\_resource.proto

# 1.243 curator-client 5.2.1

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# 1.244 jul-to-slf4j-bridge 1.7.26

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# 1.245 management-api 3.2.3

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\* Project home: <https://projects.eclipse.org/projects/ee4j.orb>

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## ## Source Code

The project maintains the following source code repositories:

- \* <https://github.com/eclipse-ee4j/orb>
- \* <https://github.com/eclipse-ee4j/orb-gmbal>
- \* <https://github.com/eclipse-ee4j/orb-gmbal-commons>
- \* <https://github.com/eclipse-ee4j/orb-gmbal-pfl>

## ## Third-party Content

This project leverages the following third party content.

ASM (6.0)

- \* License: BSD-3-Clause

hamcrest-all (1.3)

- \* License: New BSD License

JUnit (4.12)

- \* License: Eclipse Public License

OSGi Service Platform Core Companion Code (6.0)

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# 1.247 hamcrest 1.3

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<link rel="stylesheet" href="easymock.css" />
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</head>

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## 1.248 byte-buddy 1.8.21

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# 1.249 metrics-integration-for-jersey-2.x 4.1.11

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Manifest-Version: 1.0

Build-Jdk-Spec: 1.8

Bundle-Description: A set of class providing Metrics integration for Jersey, the reference JAX-RS implementation.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Metrics Integration for Jersey 2.x

Bundle-SymbolicName: io.dropwizard.metrics.jersey2

Bundle-Version: 4.1.11

Created-By: Apache Maven Bundle Plugin

Export-Package: com.codahale.metrics.jersey2;uses:="com.codahale.metrics.javax.ws.rs.core.javax.ws.rs.ext,org.glassfish.jersey.server.model,org.glassfish.jersey.server.monitoring";version="4.1.11"

Implementation-Title: Metrics Integration for Jersey 2.x

Implementation-Version: 4.1.11

Import-Package: com.codahale.metrics;version="[4.1,5)",com.codahale.metrics.annotation;version="[4.1,5)",javax.ws.rs.core;version="[2.1,3)",javax.ws.rs.ext;version="[2.1,3)",org.glassfish.jersey.server;version="[2.31,3)",org.glassfish.jersey.server.model;version="[2.31,3)",org.glassfish.jersey.server.monitoring;version="[2.31,3)"

Private-Package: com.codahale.metrics.jersey2

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-5.1.1.202006162103

Found in path(s):

\* /opt/cola/permits/1341130682\_1654768741.9684196/0/metrics-jersey2-4-1-11-jar/META-INF/MANIFEST.MF

## 1.250 google-android-annotations-library

### 4.1.1.4

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\* /opt/ws\_local/PERMITS\_SQL/1014842714\_1591897072.99/0/annotations-4-1-1-4-sources-jar/android/annotation/SuppressLint.java  
\* /opt/ws\_local/PERMITS\_SQL/1014842714\_1591897072.99/0/annotations-4-1-1-4-sources-jar/android/annotation/TargetApi.java

## 1.251 jetty-toolchain 1.0.4

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Found in path(s):

\* /opt/cola/permits/1293852964\_1649804864.87/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/Group.java  
\* /opt/cola/permits/1293852964\_1649804864.87/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUIDServer.java  
\* /opt/cola/permits/1293852964\_1649804864.87/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUID.java  
\* /opt/cola/permits/1293852964\_1649804864.87/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/Passwd.java  
\* /opt/cola/permits/1293852964\_1649804864.87/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/RLimit.java  
\* /opt/cola/permits/1293852964\_1649804864.87/0/jetty-setuid-java-1-0-4-sources-jar/org/eclipse/jetty/setuid/SetUIDListener.java

# 1.252 jackson-datatype-jsr310 2.14.0

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# 1.253 google-guice 4.2.2

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# 1.254 kafka-avro-serializer 5.5.5

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

 <modelVersion>4.0.0</modelVersion>

 <parent>
 <groupId>io.confluent</groupId>
```

```
<artifactId>kafka-schema-registry-parent</artifactId>
<version>5.5.5</version>
</parent>

<licenses>
 <license>
 <name>Apache License 2.0</name>
 <url>http://www.apache.org/licenses/LICENSE-2.0.html</url>
 <distribution>repo</distribution>
 </license>
</licenses>

<artifactId>kafka-avro-serializer</artifactId>
<packaging>jar</packaging>
<name>kafka-avro-serializer</name>

<dependencies>
 <dependency>
 <groupId>org.apache.kafka</groupId>
 <artifactId>kafka_${kafka.scala.version}</artifactId>
 <scope>provided</scope>
 </dependency>
 <dependency>
 <groupId>org.apache.avro</groupId>
 <artifactId>avro</artifactId>
 </dependency>
 <dependency>
 <groupId>io.confluent</groupId>
 <artifactId>kafka-schema-serializer</artifactId>
 </dependency>
 <dependency>
 <groupId>io.confluent</groupId>
 <artifactId>kafka-schema-registry-client</artifactId>
 </dependency>
 <dependency>
 <groupId>io.confluent</groupId>
 <artifactId>common-config</artifactId>
 </dependency>
 <dependency>
 <groupId>com.google.guava</groupId>
 <artifactId>guava</artifactId>
 <scope>test</scope>
 </dependency>
 <dependency>
 <groupId>junit</groupId>
 <artifactId>junit</artifactId>
 <scope>test</scope>
 </dependency>
</dependencies>
```

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 </dependency>
</dependencies>

<build>
 <plugins>
 <plugin>
 <groupId>org.apache.avro</groupId>
 <artifactId>avro-maven-plugin</artifactId>
 <executions>
 <execution>
 <phase>generate-sources</phase>
 <goals>
 <goal>schema</goal>
 </goals>
 <configuration>
 <testSourceDirectory>${project.basedir}/src/test/avro</testSourceDirectory>
 </configuration>
 </execution>
 </executions>
 </plugin>
 </plugins>
</build>
</project>

```

Found in path(s):

```
* /opt/cola/permits/1341640010_1654785818.176366/0/kafka-avro-serializer-5-5-5-jar/META-INF/maven/io.confluent/kafka-avro-serializer/pom.xml
```

# 1.255 apache-kafka 2.8.2

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## 1.257 jaxb-osgi-bundle-for-glassfish-v3 3.0.2

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## 1.258 zstd-jni 1.4.9-1

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Manifest-Version: 1.0

Automatic-Module-Name: com.github.luben.zstd\_jni

Bnd-LastModified: 1615191527618

Bundle-Description: JNI bindings for Zstd native library that provides fast and high compression lossless algorithm for Java and all JVM la

nguages.

Bundle-License: <https://opensource.org/licenses/BSD-2-Clause>;descripti

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Bundle-ManifestVersion: 2

Bundle-Name: zstd-jni

Bundle-NativeCode: aix/ppc64/libzstd-jni.so;osname=AIX;processor=ppc64, darwin/x86\_64/libzstd-jni.dylib;osname=MacOS;osname=MacOSX;processor=x86\_64, darwin/aarch64/libzstd-jni.dylib;osname=MacOS;osname=MacOSX;processor=aarch64, freebsd/amd64/libzstd-jni.so;osname=FreeBSD;processor=amd64, freebsd/i386/libzstd-jni.so;osname=FreeBSD;processor=i386, linux/aarch64/libzstd-jni.so;osname=Linux;processor=aarch64, linux/amd64/libzstd-jni.so;osname=Linux;processor=amd64, linux/arm/libzstd-jni.so;osname=Linux;processor=arm, linux/i386/libzstd-jni.so;osname=Linux;processor=i386, linux/mips64/libzstd-jni.so;osname=Linux;processor=mips64, linux/ppc64/libzstd-jni.so;osname=Linux;processor=ppc64, linux/ppc64le/libzstd-jni.so;osname=Linux;processor=ppc64le, linux/s390x/libzstd-jni.so;osname=Linux;processor=s390x, win/amd64/libzstd-jni.dll;osname=Win32;processor=amd64, win/x86/libzstd-jni.dll;osname=Win32;processor=x86

Bundle-SymbolicName: com.github.luben.zstd-jni

Bundle-Vendor: com.github.luben

Bundle-Version: 1.4.9.1

Created-By: 1.8.0\_275 (Debian)

Export-Package: com.github.luben.zstd;version="1.4.9.1",com.github.luben.zstd.util;version="1.4.9.1"

Implementation-Title: zstd-jni

Implementation-Vendor: com.github.luben

Implementation-Vendor-Id: com.github.luben

Implementation-Version: 1.4.9-1

Import-Package: org.osgi.framework;resolution:=optional

Private-Package: linux.amd64,linux.i386,linux.aarch64,linux.arm,linux.ppc64,linux.ppc64le,linux.mips64,linux.s390x,aix.ppc64,darwin.x86\_64,darwin.aarch64,win.amd64,win.x86,freebsd.amd64,freebsd.i386

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Specification-Title: zstd-jni

Specification-Vendor: com.github.luben

Specification-Version: 1.4.9-1

Tool: Bnd-4.0.0.201805111645

Found in path(s):

\* /opt/cola/permits/1183892379\_1627494642.79/0/zstd-jni-1-4-9-1-1-jar/META-INF/MANIFEST.MF

## 1.259 annotations-for-metrics 4.1.11

## 1.259.1 Available under license :

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Manifest-Version: 1.0

Build-Jdk-Spec: 1.8

Bundle-Description: A dependency-less package of just the annotations used by other Metrics modules.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Annotations for Metrics

Bundle-SymbolicName: io.dropwizard.metrics.annotation

Bundle-Version: 4.1.11

Created-By: Apache Maven Bundle Plugin

Export-Package: com.codahale.metrics.annotation;version="4.1.11"

Implementation-Title: Annotations for Metrics

Implementation-Version: 4.1.11

Private-Package: com.codahale.metrics.annotation

Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-5.1.1.202006162103

Found in path(s):

\* /opt/cola/permits/1341130315\_1654767956.7094097/0/metrics-annotation-4-1-11-4-jar/META-INF/MANIFEST.MF

## 1.260 jersey's-jersey 2.35

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## 1.264 java-architecture-for-xml-binding 2.2.4

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\* A Base64 encoder/decoder.

\*

\* <p>

\* This class is used to encode and decode data in Base64 format as described in RFC 1521.

\*

\* <p>

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\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-jar/org/yaml/snakeyaml/introspector/PropertySubstitute.java  
\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-jar/org/yaml/snakeyaml/introspector/FieldProperty.java  
\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-jar/org/yaml/snakeyaml/tokens/TagToken.java  
\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-jar/org/yaml/snakeyaml/parser/Production.java  
\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-jar/org/yaml/snakeyaml/events/MappingEndEvent.java  
\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactConstructor.java  
\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-jar/org/yaml/snakeyaml/util/ArrayStack.java  
\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-jar/org/yaml/snakeyaml/LoaderOptions.java  
\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-jar/org/yaml/snakeyaml/error/MissingEnvironmentVariableException.java  
\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactData.java  
\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-jar/org/yaml/snakeyaml/reader/ReaderException.java  
\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-jar/org/yaml/snakeyaml/tokens/CommentToken.java  
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\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-  
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\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-  
jar/org/yaml/snakeyaml/serializer/Serializer.java  
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\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-  
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\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-  
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\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-  
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\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-  
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\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-  
jar/org/yaml/snakeyaml/tokens/FlowMappingEndToken.java  
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\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-  
jar/org/yaml/snakeyaml/env/EnvScalarConstructor.java  
\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-  
jar/org/yaml/snakeyaml/scanner/SimpleKey.java  
\* /opt/cola/permits/1446188159\_1666171012.444366/0/snakeyaml-1-33-sources-1-  
jar/org/yaml/snakeyaml/error/MarkedYAMLException.java

# 1.268 metrics-utility-servlets 4.0.5

## 1.268.1 Available under license :

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

Manifest-Version: 1.0  
Bnd-LastModified: 1545938238563  
Build-Jdk: 1.8.0\_191  
Built-By: artem  
Bundle-Description: A set of utility servlets for Metrics, allowing yo  
u to expose valuable information about your production environ  
ment.  
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>  
Bundle-ManifestVersion: 2  
Bundle-Name: Metrics Utility Servlets  
Bundle-SymbolicName: io.dropwizard.metrics.servlets  
Bundle-Version: 4.0.5  
Created-By: Apache Maven Bundle Plugin  
Export-Package: com.codahale.metrics.servlets;uses:="com.codahale.met  
rics,com.codahale.metrics.health,javax.servlet,javax.servlet.http";ver  
sion="4.0.5"  
Implementation-Title: Metrics Utility Servlets  
Implementation-URL: <http://metrics.dropwizard.io/metrics-servlets>  
Implementation-Vendor-Id: io.dropwizard.metrics  
Implementation-Version: 4.0.5  
Import-Package: javax.servlet;version="[2.5.0,4.0.0)",javax.servlet.ht  
tp;version="[2.5.0,4.0.0)",com.codahale.metrics;version="[4.0,5)",com  
.codahale.metrics.health;version="[4.0,5)",com.codahale.metrics.json;  
version="[4.0,5)",com.codahale.metrics.jvm;version="[4.0,5)",com.fast  
erxml.jackson.databind;version="[2.9,3)",com.fasterxml.jackson.databi  
nd.util;version="[2.9,3)",com.papertrail.profiler,org.joda.time;versi  
on="[2.9,3)"  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-3.3.0.201609221906

Found in path(s):

\* /opt/cola/permits/1274701310\_1648835822.95/0/metrics-servlets-4-0-5-jar/META-INF/MANIFEST.MF

# 1.269 admin-config-api 6.2.4

## 1.269.1 Available under license :

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\* Project home: <https://projects.eclipse.org/projects/ee4j.glassfish>

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SPDX-License-Identifier: EPL-2.0 OR GPL-2.0 WITH Classpath-exception-2.0

## 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>
- \* <https://github.com/eclipse-ee4j/glassfish>

\* <https://github.com/eclipse-ee4j/glassfish-maven-embedded-plugin>

\* <https://github.com/eclipse-ee4j/bvtck-porting>

## ## Third-party Content

This project leverages the following third party content.

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include/winstdint.h is included only for Windows Client support, as follows:

```
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It has been downloaded in december 2009 from the CVS web interface of the sourceforge project

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./zookeeper-contrib/zookeeper-contrib-

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\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/META-INF/maven/org.apache.camel/camel-zookeeper/pom.xml

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\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/NaturalSortComparator.java  
\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/ZooKeeperUtils.java  
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\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/ZooKeeperCuratorHelper.java  
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\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/CreateOperation.java  
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\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/GetDataOperation.java  
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\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/DataChangedOperation.java  
\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/SetDataOperation.java  
\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/DeleteOperation.java  
\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/ChildrenChangedOperation.java  
\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/cloud/ZooKeeperServiceRegistry.java  
\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/OperationResult.java  
\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/ZooKeeperOperation.java

\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/ExistenceChangedOperation.java  
\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/ZooKeeperProducer.java  
\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/ZooKeeperHelper.java  
\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/SequenceComparator.java  
\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/ZooKeeperConfiguration.java  
\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/cluster/ZooKeeperClusterService.java  
\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/FutureEventDrivenOperation.java  
\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/ZooKeeperComponent.java  
\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/ExistsOperation.java  
\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/GetChildrenOperation.java  
\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/ConnectionHolder.java  
\* /opt/cola/permits/1425206646\_1663952692.6053333/0/camel-zookeeper-3-8-0-sources-2-jar/org/apache/camel/component/zookeeper/operations/WatchedEventProvider.java

# 1.280 apache-commons-lang 2.6

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```
*/opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/unsafe/Pow2.java
```

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This package "rx.internal.operators" is for internal implementation details and can change at any time.

It is excluded from the public Javadocs (<http://netflix.github.io/RxJava/javadoc/>) and should not be relied upon by any code.

In short, changes to public signatures of these classes will not be accounted for in the versioning of RxJava.

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/README.md

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/GenericScheduledExecutorService.java

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/ActionN.java

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/OnErrorNotImplementedException.java

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorToObservableSortedList.java

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action9.java

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/BehaviorSubject.java

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/SafeSubscriber.java

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorOnBackpressureDrop.java

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/CompositeException.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/NewThreadScheduler.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableOnSubscribeMergeArray.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorMaterialize.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func2.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observables/GroupedObservable.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorTakeUntil.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action4.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableOnSubscribeConcat.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorTakeLast.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Observer.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/CachedThreadScheduler.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action5.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/plugins/RxJavaErrorHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorZip.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/RxRingBuffer.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorToObservableList.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/Observers.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableOnSubscribeConcatArray.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableOnSubscribeMergeIterable.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subscriptions/Subscriptions.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subscriptions/BooleanSubscription.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSkipLastTimed.java  
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\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-

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\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Subscriber.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action0.java  
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\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action1.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
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\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDematerialize.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDoOnRequest.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeJoin.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeToMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/SerializedObserver.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/BlockingOperatorLatest.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subscriptions/SerialSubscription.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action6.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-

jar/rx/internal/operators/OnSubscribeAutoConnect.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorThrottleFirst.java  
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\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSkipWhile.java  
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\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSubscribeOn.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorTimestamp.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/MissingBackpressureException.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorReplay.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subscriptions/CompositeSubscription.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorZipIterable.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func5.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDelay.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeUsing.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/FuncN.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeSingle.java  
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\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorOnErrorResumeNextViaFunction.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/OnErrorThrowable.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/schedulers/NewThreadScheduler.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/ScalarSynchronousObservable.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action3.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeRedo.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/SerializedSubject.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Completable.java

- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/TrampolineScheduler.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeGroupJoin.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableOnSubscribeTimeout.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Subscription.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/schedulers/Schedulers.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleDoOnEvent.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/package-info.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeFilter.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSkipLast.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/UnicastSubject.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeFromArray.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/SleepingAction.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action8.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/AsyncSubject.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/schedulers/ImmediateScheduler.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorTimeInterval.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func7.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDoOnUnsubscribe.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorSingle.java
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- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func0.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observables/SyncOnSubscribe.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/Subscribers.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeAmb.java
- \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-

jar/rx/internal/operators/OnSubscribeMap.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
 jar/rx/schedulers/TimeInterval.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
 jar/rx/internal/operators/OperatorSequenceEqual.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
 jar/rx/internal/operators/OperatorMapNotification.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
 jar/rx/subjects/ReplaySubject.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
 jar/rx/internal/util/IndexedRingBuffer.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
 jar/rx/internal/operators/BlockingOperatorToIterator.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Notification.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func6.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
 jar/rx/subscriptions/RefCountSubscription.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
 jar/rx/internal/operators/OperatorCast.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
 jar/rx/exceptions/Exceptions.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
 jar/rx/internal/operators/OnSubscribeTimeoutSelectorWithFallback.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
 jar/rx/exceptions/OnCompletedFailedException.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Function.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
 jar/rx/internal/operators/OperatorTakeWhile.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
 jar/rx/internal/operators/OnSubscribeRange.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
 jar/rx/plugins/RxJavaObservableExecutionHook.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
 jar/rx/internal/operators/BlockingOperatorMostRecent.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func4.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/Subject.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
 jar/rx/internal/operators/OnSubscribeTimeoutTimedWithFallback.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
 jar/rx/observers/SerializedSubscriber.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action2.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
 jar/rx/internal/operators/OperatorWithLatestFromMany.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
 jar/rx/internal/operators/OperatorObserveOn.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
 jar/rx/internal/operators/OperatorSerialize.java  
 \* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func8.java

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Producer.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/plugins/RxJavaObservableExecutionHookDefault.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Action.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorDoOnSubscribe.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeFromIterable.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OperatorGroupBy.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/schedulers/Stamped.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeSwitchIfEmpty.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableOnSubscribeMerge.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Func3.java  
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This package contains code that relies on sun.misc.Unsafe. Before using it you MUST assert  
UnsafeAccess.isUnsafeAvailable() == true

Much of the code in this package comes from or is inspired by the JCTools project:  
<https://github.com/JCTools/JCTools>

JCTools has now published artifacts (<https://github.com/JCTools/JCTools/issues/17>) so RxJava could add JCTools as a "shadow" dependency (<https://github.com/ReactiveX/RxJava/issues/1735>).  
RxJava has a "zero dependency" policy for the core library, so if we do add it as a dependency, it won't be an externally visible dependency that results in a separate jar.

The license for the JCTools code is <https://github.com/JCTools/JCTools/blob/master/LICENSE>

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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/unsafe/README.md
```

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```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/SingleTimeout.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OnSubscribeOnAssemblySingle.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/package-
info.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/SingleFromObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/ObserverSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/observers/AssertableSubscriberObservable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/ActionSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/plugins/RxJavaSingleExecutionHook.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/SingleFromCallable.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OnSubscribeLift.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/annotations/package-
info.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/observers/AsyncCompletableSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/plugins/RxJavaCompletableExecutionHook.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/SingleOnErrorReturn.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
```

jar/rx/internal/operators/OnSubscribeDetach.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/operators/SingleTakeUntilCompletable.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/exceptions/package-  
info.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/operators/OnSubscribeFlattenIterable.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/functions/Cancellable.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/operators/SingleTakeUntilObservable.java  
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\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/operators/EmptyObservableHolder.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/operators/SingleDoOnUnsubscribe.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/exceptions/AssemblyStackTraceException.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/util/ActionNotificationObserver.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subscriptions/package-  
info.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/schedulers/SchedulePeriodicHelper.java  
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jar/rx/internal/util/InternalObservableUtils.java  
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jar/rx/internal/operators/OnSubscribeOnAssemblyCompletable.java  
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info.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/BackpressureOverflow.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/operators/SingleObserveOn.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/operators/OnSubscribeOnAssembly.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/plugins/RxJavaHooks.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/package-  
info.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/operators/SingleFromFuture.java  
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info.java  
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jar/rx/internal/operators/SingleLiftObservableOperator.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/subjects/package-  
info.java

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/SingleToObservable.java  
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\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/subscriptions/CancellableSubscription.java  
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\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/observers/SafeCompletableSubscriber.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/CompletableFlatMapSingleToCompletable.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/singles/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/operators/OnSubscribeCreate.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/plugins/RxJavaSingleExecutionHookDefault.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/schedulers/GenericScheduledExecutorServiceFactory.java

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\* Modified from <http://www.javacodegeeks.com/2013/08/simple-and-lightweight-pool-implementation.html>

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\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/operators/OperatorWindowWithTime.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/functions/Actions.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/operators/OperatorSkipUntil.java  
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*/
```

Found in path(s):  
\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-  
jar/rx/internal/util/atomic/MpscLinkedAtomicQueue.java  
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\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/atomic/BaseLinkedAtomicQueue.java  
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\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Observable.java  
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\* Inspired from <https://code.google.com/p/guava-libraries/source/browse/guava/src/com/google/common/annotations/Beta.java>  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/annotations/Experimental.java

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\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/atomic/AtomicReferenceArrayQueue.java

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\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/SingleSubscriber.java

\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-

```
jar/rx/singles/BlockingSingle.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/observables/AsyncOnSubscribe.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/SingleDoAfterTerminate.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/BlockingUtils.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/OnSubscribeCombineLatest.java
```

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/Single.java
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* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/CompletableEmitter.java
```

```
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/operators/CompletableFromEmitter.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/CompletableSubscriber.java
* /opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/SingleEmitter.java
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```

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\* /opt/ws\_local/PERMITS\_SQL/1014221113\_1591382734.95/0/rxjava-1-3-8-sources-jar/rx/internal/util/unsafe/MpscLinkedQueue.java

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 */
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/atomic/SpSCAtomicArrayQueue.java
*/opt/ws_local/PERMITS_SQL/1014221113_1591382734.95/0/rxjava-1-3-8-sources-
jar/rx/internal/util/atomic/SpSCExactAtomicArrayQueue.java
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/**
 * This plugin class provides 2 ways to customize {@link Scheduler} functionality
 * 1. You may redefine entire schedulers, if you so choose. To do so, override
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 * 2. You may wrap/decorate an {@link Action0}, before it is handed off to a Scheduler. The system-
 * supplied Schedulers (Schedulers.ioScheduler, Schedulers.computationScheduler,
 * Scheduler.newThreadScheduler) all use this hook, so it's a convenient way to
 * modify Scheduler functionality without redefining Schedulers wholesale.
```

\*  
\* Also, when redefining Schedulers, you are free to use/not use the onSchedule decoration hook.  
\* <p>  
\* See { @link RxJavaPlugins } or the RxJava GitHub Wiki for information on configuring plugins:  
\* <a  
href="https://github.com/ReactiveX/RxJava/wiki/Plugins">https://github.com/ReactiveX/RxJava/wiki/Plugins</a>.  
\*/

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 */
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\*/

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## 1.290 micronaut-kubernetes 3.4.0

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\* /opt/cola/permits/1331474306\_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-jar/io/micronaut/kubernetes/client/NamespaceResolver.java  
\* /opt/cola/permits/1331474306\_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-jar/io/micronaut/kubernetes/client/Apis.java  
\* /opt/cola/permits/1331474306\_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-jar/io/micronaut/kubernetes/client/OkHttpClientLogging.java  
\* /opt/cola/permits/1331474306\_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-jar/io/micronaut/kubernetes/client/ApisAutomaticFeatureMetadata.java  
\* /opt/cola/permits/1331474306\_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-jar/io/micronaut/kubernetes/client/ApiClientConfiguration.java  
\* /opt/cola/permits/1331474306\_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-jar/io/micronaut/kubernetes/client/DefaultNamespaceResolver.java  
\* /opt/cola/permits/1331474306\_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-jar/io/micronaut/kubernetes/client/ApiClientFactory.java

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* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/DiscoveryFactory.java
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/graalvm/KubernetesClientFeature.java
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/ModelMapper.java
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/DefaultPodNameResolver.java
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Found in path(s):

```
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/DiscoveryCache.java
```

# 1.291 dropwizard-lifecycle-support 2.0.12

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# 1.292 javabeans-activation-framework-api

## 1.2.2

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Specification: {doctitle}

Version: {revnumber}

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Status: {revremark}

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ifeval::["{revremark}" == ""]

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# 1.293 maven-default-project 4.1.2

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{"version":3,"file":"kotlin.js","sources":["wrapper.js","js/arrayUtils.js","js/callableReferenceUtils.js","js/conversions.js","js/core.js","js/long.js","js/markerFunctions.js","js/misc.js","js/polyfills.js","js/rtti.js","runtime/arrayUtils.kt","runtime/Enum.kt","primitiveCompanionObjects.kt","common/src/generated/_Arrays.kt","common/src/generated/_Ranges.kt","unsigned/src/kotlin/UByte.kt","unsigned/src/kotlin/UInt.kt","unsigned/src/kotlin/UShort.kt","builtin-sources/Ranges.kt","src/kotlin/collections/Collections.kt","src/kotlin/collections/Maps.kt","src/kotlin/collections/Sets.kt","src/kotlin/text/StringNumberConversions.kt","src/kotlin/time/Duration.kt","unsigned/src/kotlin/UnsignedUtils.kt","src/kotlin/collections/Iterables.kt","src/kotlin/collections/Sequences.kt","src/kotlin/util/Preconditions.kt","js/src/generated/_ArraysJs.kt","src/kotlin/comparisons/Comparisons.kt","src/kotlin/util/Standard.kt","js/src/generated/_ComparisonsJs.kt","unsigned/src/kotlin/ULong.kt","common/src/generated/_Collections.kt","js/src/kotlin/collections.kt","src/kotlin/collections/Iterators.kt","common/src/generated/_Comparisons.kt","common/src/generated/_Maps.kt","common/src/generated/_OneToManyTitlecaseMappings.kt","js/src/kotlin/text/char.kt","js/src/kotlin/text/string.kt","src/kotlin/text/Char.kt","src/kotlin/CharCode.kt","common/src/generated/_Sequences.kt","common/src/generated/_Sets.kt","common/src/generated/_Strings.kt","src/kotlin/text/Strings.kt","unsigned/src/kotlin/UByteArray.kt","unsigned/src/kotlin/UIntArray.kt","unsigned/src/kotlin/ULongArray.kt","unsigned/src/kotlin/UShortArray.kt","common/src/generated/_UArrays.kt","common/src/generated/_UCollections.kt","common/src/generated/_UComparisons.kt","common/src/generated/_URanges.kt","common/src/generated/_USequences.kt","common/src/kotlin/ExceptionsH.kt","common/src/kotlin/JsAnnotationsH.kt","common/src/kotlin/ioH.kt","builtin-sources/Collections.kt","builtin-
```

sources/Iterators.kt","builtin-sources/ProgressionIterators.kt","builtin-sources/Progressions.kt","builtin-sources/Range.kt","builtin-sources/Unit.kt","builtin-sources/annotation/Annotations.kt","builtin-sources/internal/InternalAnnotations.kt","builtin-sources/internal/progressionUtil.kt","src/kotlin/builtins.kt","src/kotlin/jsTypeOf.kt","src/kotlin/kotlin.kt","src/kotlin/charCode\_js-v1.kt","src/kotlin/coroutines/CoroutineImpl.kt","src/kotlin/util/Result.kt","src/kotlin/coroutines/Continuation.kt","src/kotlin/coroutines/intrinsics/IntrinsicsJs.kt","src/kotlin/currentBeMisc.kt","src/kotlin/exceptions.kt","src/kotlin/jsOperators.kt","src/kotlin/math\_js-v1.kt","src/kotlin/numbers\_js-v1.kt","src/kotlin/reflection\_js-v1.kt","src/kotlin/text/numberConversions\_js-v1.kt","js/src/generated/\_CharCategories.kt","js/src/generated/\_CollectionsJs.kt","js/src/generated/\_DigitChars.kt","js/src/generated/\_LetterChars.kt","js/src/generated/\_OtherLowercaseChars.kt","js/src/generated/\_OtherUppercaseChars.kt","js/src/generated/\_StringsJs.kt","js/src/generated/\_TitlecaseMappings.kt","js/src/generated/\_UArraysJs.kt","js/src/generated/\_WhitespaceChars.kt","js/src/kotlin/Comparator.kt","js/src/kotlin/annotations.kt","js/src/kotlin/annotationsJVM.kt","js/src/kotlin/collections/AbstractMutableCollection.kt","js/src/kotlin/collections/AbstractMutableList.kt","js/src/kotlin/collections/AbstractMutableMap.kt","js/src/kotlin/collections/AbstractMutableSet.kt","js/src/kotlin/collections/ArrayList.kt","js/src/kotlin/collections/ArraySorting.kt","js/src/kotlin/collections/ArraysJs.kt","js/src/kotlin/collections/EqualityComparator.kt","js/src/kotlin/collections/HashMap.kt","js/src/kotlin/collections/HashSet.kt","js/src/kotlin/collections/InternalHashMap.kt","js/src/kotlin/collections/InternalMap.kt","js/src/kotlin/collections/InternalStringMap.kt","js/src/kotlin/collections/LinkedHashMap.kt","js/src/kotlin/collections/LinkedHashSet.kt","js/src/kotlin/concurrent.kt","js/src/kotlin/console.kt","js/src/kotlin/coroutines/SafeContinuationJs.kt","js/src/kotlin/coroutines/cancellation/CancellationException.kt","js/src/kotlin/coroutines/js/internal/EmptyContinuation.kt","js/src/kotlin/date.kt","js/src/kotlin/dom/Builders.kt","js/src/kotlin/dom/Classes.kt","js/src/kotlin/dom/Dom.kt","js/src/kotlin/dom/EventListener.kt","js/src/kotlin/dom/ItemArrayLike.kt","js/src/kotlin/dom/Mutations.kt","js/src/kotlin/dynamic.kt","js/src/kotlin/exceptionUtils.kt","js/src/kotlin/grouping.kt","src/kotlin/collections/Grouping.kt","js/src/kotlin/internalAnnotations.kt","js/src/kotlin/json.kt","js/src/kotlin/math.kt","js/src/kotlin/numbers.kt","js/src/kotlin/promise.kt","js/src/kotlin/random/PlatformRandom.kt","js/src/kotlin/reflect/AssociatedObjects.kt","js/src/kotlin/reflect/JsClasses.kt","js/src/kotlin/reflect/KClassImpl.kt","js/src/kotlin/reflect/KClassesImpl.kt","js/src/kotlin/reflect/KTypeHelpers.kt","js/src/kotlin/reflect/KTypeImpl.kt","js/src/kotlin/reflect/KTypeParameterImpl.kt","js/src/kotlin/reflect/primitives.kt","js/src/kotlin/reflect/reflection.kt","js/src/kotlin/regexp.kt","js/src/kotlin/sequence.kt","js/src/kotlin/text/CharCategoryJS.kt","js/src/kotlin/text/CharacterCodingExceptionJs.kt","js/src/kotlin/text/StringBuilderJs.kt","js/src/kotlin/text/numberConversions.kt","js/src/kotlin/text/regex.kt","src/kotlin/text/StringBuilder.kt","js/src/kotlin/text/stringsCode.kt","js/src/kotlin/text/utf8Encoding.kt","js/src/kotlin/throwableExtensions.kt","js/src/kotlin/time/DurationJs.kt","js/src/kotlin/time/DurationUnit.kt","js/src/kotlin/time/MonoTimeSource.kt","js/src/kotlinx/dom/Builders.kt","js/src/kotlinx/dom/Classes.kt","src/kotlin/text/regex/RegexExtensions.kt","js/src/kotlinx/dom/Dom.kt","js/src/kotlinx/dom/Mutations.kt","js/src/org.w3c/deprecated.kt","js/src/org.w3c/org.khronos.webgl.kt","js/src/org.w3c/org.w3c.dom.clipboard.kt","js/src/org.w3c/org.w3c.dom.css.kt","js/src/org.w3c/org.w3c.dom.encryptedmedia.kt","js/src/org.w3c/org.w3c.dom.events.kt","js/src/org.w3c/org.w3c.dom.kt","js/src/org.w3c/org.w3c.fetch.kt","js/src/org.w3c/org.w3c.dom.mediacapture.kt","js/src/org.w3c/org.w3c.dom.mediasource.kt","js/src/org.w3c/org.w3c.dom.pointerevents.kt","js/src/org.w3c/org.w3c.dom.svg.kt","js/src/org.w3c/org.w3c.files.kt","js/src/org.w3c/org.w3c.notifications.kt","js/src/org.w3c/org.w3c.workers.kt","js/src/org.w3c/org.w3c.xhr.kt","src/kotlin/annotations/Experimental.kt","src/kotlin/annotations/ExperimentalStdlibApi.kt","src/kotlin/annotations/Inference.kt","src/kotlin/annotations/Multiplatform.kt","src/kotlin/annotations/OptIn.kt","src/kotlin/collections/AbstractCollection.kt","src/kotlin/collections/AbstractIterator.kt","src/kotlin/collections/AbstractList.kt","src/kotlin/collections/AbstractMap.kt","src/kotlin/collections/AbstractSet.kt","src/kotlin/collections/ArrayDeque.kt","src/kotlin/collections/Arrays.kt","src/kotlin/collections/BrittleContainsOptimization.kt","src/kotlin/collections/IndexedValue.kt","src/kotlin/collections/MapAccessors.kt","src/kotlin/collections/MapWithDefault.kt","src/kotlin/collections/MutableCollections.kt","src/kotlin/collections/ReversedViews.kt","src/kotlin/collections/SequenceBuilder.kt","src/kotlin/collections/SlidingWindow.kt","src/kotlin/collections/UArraySorting.kt","src/kotlin/comparisons/compareTo.kt","src/kotlin/contracts/ContractBuilder.kt","src/kotlin/coroutines/

ContinuationInterceptor.kt", "src/kotlin/coroutines/CoroutineContext.kt", "src/kotlin/coroutines/CoroutineContextImpl.kt", "src/kotlin/coroutines/intrinsics/Intrinsics.kt", "src/kotlin/experimental/bitwiseOperations.kt", "src/kotlin/experimental/inferenceMarker.kt", "src/kotlin/internal/Annotations.kt", "src/kotlin/properties/Delegates.kt", "src/kotlin/properties/Interfaces.kt", "src/kotlin/properties/ObservableProperty.kt", "src/kotlin/properties/PropertyReferenceDelegates.kt", "src/kotlin/random/Random.kt", "src/kotlin/random/URandom.kt", "src/kotlin/random/XorWowRandom.kt", "src/kotlin/ranges/Ranges.kt", "src/kotlin/reflect/KClasses.kt", "src/kotlin/reflect/KTypeProjection.kt", "src/kotlin/reflect/KVariance.kt", "src/kotlin/reflect/typeOf.kt", "src/kotlin/text/Appendable.kt", "src/kotlin/text/Indent.kt", "src/kotlin/text/Typography.kt", "src/kotlin/text/regex/MatchResult.kt", "src/kotlin/time/DurationUnit.kt", "src/kotlin/time/ExperimentalTime.kt", "src/kotlin/time/TimeSource.kt", "src/kotlin/time/TimeSources.kt", "src/kotlin/time/measureTime.kt", "src/kotlin/util/DeepRecursive.kt", "src/kotlin/util/FloorDivMod.kt", "src/kotlin/util/HashCode.kt", "src/kotlin/util/KotlinVersion.kt", "src/kotlin/util/Lateinit.kt", "src/kotlin/util/Lazy.kt", "src/kotlin/util/Numbers.kt", "src/kotlin/util/Suspend.kt", "src/kotlin/util/Tuples.kt", "unsigned/src/kotlin/UIntRange.kt", "unsigned/src/kotlin/UITerators.kt", "unsigned/src/kotlin/ULongRange.kt", "unsigned/src/kotlin/UMath.kt", "unsigned/src/kotlin/UNumbers.kt", "unsigned/src/kotlin/UPrgressionUtil.kt", "unsigned/src/kotlin/UStrings.kt", "unsigned/src/kotlin/annotations/Unsigned.kt", "common/src/kotlin/MathH.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 Kotlin.isBooleanArray = function (a) {\n return (Array.isArray(a) || a instanceof Int8Array) && a.\$type\$ === \"BooleanArray\";\n}\n\n Kotlin.isByteArray = function (a) {\n return a instanceof Int8Array && a.\$type\$ !== \"BooleanArray\";\n}\n\n Kotlin.isShortArray = function (a) {\n return a instanceof Int16Array;\n}\n\n Kotlin.isCharArray = function (a) {\n return a instanceof Uint16Array && a.\$type\$ === \"CharArray\";\n}\n\n Kotlin.isIntArray = function (a) {\n return a instanceof Int32Array;\n}\n\n Kotlin.isFloatArray = function (a) {\n return a instanceof Float32Array;\n}\n\n Kotlin.isDoubleArray = function (a) {\n return a instanceof Float64Array;\n}\n\n Kotlin.isLongArray = function (a) {\n return Array.isArray(a) && a.\$type\$ === \"LongArray\";\n}\n\n Kotlin.isArray = function (a) {\n return Array.isArray(a) && !a.\$type\$;\n}\n\n Kotlin.isArrayish = function (a) {\n return Array.isArray(a) || ArrayBuffer.isView(a);\n}\n\n Kotlin.arrayToString = function (a) {\n if (a === null) return \"null\";\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\n Kotlin.arrayDeepToString = function (arr) {\n return Kotlin.kotlin.collections.contentDeepToStringImpl(arr);\n}\n\n Kotlin.arrayEquals = function (a, b) {\n if (a === b) {\n return true;\n }\n if (a === null || b === null || !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\n Kotlin.arrayDeepEquals = function (a, b) {\n return Kotlin.kotlin.collections.contentDeepEqualsImpl(a, b);\n}\n\n Kotlin.arrayHashCode = function (arr) {\n if (arr === null) return 0;\n var result = 1;\n for (var i = 0, n = arr.length; i < n; i++) {\n result = ((31 \* result | 0) + Kotlin.hashCode(arr[i])) | 0;\n }\n return result;\n}\n\n Kotlin.arrayDeepHashCode = function (arr) {\n return Kotlin.kotlin.collections.contentDeepHashCodeImpl(arr);\n}\n\n Kotlin.primitiveArraySort = function (array) {\n array.sort(Kotlin.doubleCompareTo);\n}\n", "/\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*\n Kotlin.getCallableRef = function(name, f) {\n f.callableName = name;\n return f;\n}\n\n Kotlin.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\n function getPropertyRefClass(obj, setter, cache) {\n obj.\$metadata\$ = getPropertyRefMetadata(typeof setter === \"function\" ? cache.mutable : cache.immutable);\n"}\n"]\n

```

obj.constructor = obj;\n return obj;\n}\n\nvar propertyRefClassMetadataCache = [\n {\n mutable: { value:\n 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\n Kotlin.kotlin.reflect.KMutableProperty1 }\n },\n immutable: { value: null, implementedInterface: function\n () {\n return Kotlin.kotlin.reflect.KProperty1 }\n }\n }\n];\n\nfunction getPropertyRefMetadata(cache)\n{\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\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\nKotlin.toShort = function (a) {\n return (a & 0xFFFF) << 16 >>\n16;\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 :\nKotlin.Long.fromNumber(a);\n};\n\nKotlin.numberToInt = function (a) {\n return a instanceof Kotlin.Long ?\na.toInt() : Kotlin.doubleToInt(a);\n};\n\nKotlin.numberToShort = function (a) {\n return\nKotlin.toShort(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToByte = function (a) {\n return\nKotlin.toByte(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToDouble = function (a) {\n return\n+a;\n};\n\nKotlin.numberToChar = function (a) {\n return\nKotlin.toChar(Kotlin.numberToInt(a));\n};\n\nKotlin.doubleToInt = function(a) {\n if (a > 2147483647) return\n2147483647;\n if (a < -2147483648) return -2147483648;\n return a | 0;\n};\n\nKotlin.toBoxedChar = function\n(a) {\n if (a == null) return a;\n if (a instanceof Kotlin.BoxedChar) return a;\n return new\nKotlin.BoxedChar(a);\n};\n\nKotlin.unboxChar = function(a) {\n if (a == null) return a;\n return\nKotlin.toChar(a);\n};\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language\ncontributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the\nlicense/LICENSE.txt file.\n */\n\nKotlin.equals = function (obj1, obj2) {\n if (obj1 == null) {\n return obj2 ==\nnull;\n }\n if (obj2 == null) {\n return false;\n }\n if (obj1 !== obj2) {\n return obj2 !== 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 !==\n0 || 1 / obj1 === 1 / obj2);\n }\n return obj1 === obj2;\n};\n\nKotlin.hashCode = function (obj) {\n if (obj ==\nnull) {\n return 0;\n }\n var objType = typeof obj;\n if ("object" === objType) {\n return "function"\n=== typeof obj.hashCode ? obj.hashCode() : getObjectHashCode(obj);\n }\n if ("function" === objType) {\n return\ngetObjectHashCode(obj);\n }\n if ("number" === objType) {\n return\nKotlin.numberHashCode(obj);\n }\n if ("boolean" === objType) {\n return Number(obj)\n }\n var str\n= String(obj);\n return getStringHashCode(str);\n};\n\nKotlin.toString = function (o) {\n if (o == null) {\n return "null";\n }\n else if (Kotlin.isArrayish(o)) {\n return "[...]";\n }\n else {\n return\no.toString();\n }\n};\n\n/** @const */\nvar POW_2_32 = 4294967296;\n// TODO: consider switching to Symbol\ntype once we are on ES6.\n/** @const */\nvar OBJECT_HASH_CODE_PROPERTY_NAME =\n"\"kotlinHashCodeValue$";\n\nfunction getObjectHashCode(obj) {\n if\n(! (OBJECT_HASH_CODE_PROPERTY_NAME in obj)) {\n var hash = (Math.random() * POW_2_32) | 0;\n // Make 32-bit signed integer.\n Object.defineProperty(obj, OBJECT_HASH_CODE_PROPERTY_NAME, {\n value: hash, enumerable: false });\n }\n return\nobj[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;\n // Keep\nit 32-bit.\n }\n return hash;\n}\n\nKotlin.identityHashCode = getObjectHashCode;\n\n"/*\n * Copyright 2010-\n2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by\nthe Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Copyright 2009 The Closure\nLibrary Authors. All Rights Reserved.\n\n// Licensed under the Apache License, Version 2.0 (the "License");\n\n// you may not use this file except in compliance with the License.\n\n// You may obtain a copy of the License at\n\n//

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**Constructs a 64-bit two's-complement integer, given its low and high 32-bit values as signed integers. See the from\* functions below for more convenient ways of constructing Longs.**

**The internal representation of a long is the two given signed, 32-bit values. We use 32-bit pieces because these are the size of integers on which Javascript performs bit-operations. For operations like addition and multiplication, we split each number into 16-bit pieces, which can easily be multiplied within Javascript's floating-point representation without overflow or change in sign.**

**In the algorithms below, we frequently reduce the negative case to the positive case by negating the input(s) and then post-processing the result. Note that we must ALWAYS check specially whether those values are MIN\_VALUE (-2^63) because -MIN\_VALUE == MIN\_VALUE (since 2^63 cannot be represented as a positive number, it overflows back into a negative). Not handling this case would often result in infinite recursion.**

```

@param {number} low The low (signed) 32 bits of the long.
@param {number} high The high (signed) 32 bits of the long.
@constructor
@final
^/Kotlin.Long = function(low, high) {
 /**
 @type {number}
 @private
 ^/ this.low_ = low | 0; // force into 32 signed bits.
 /**
 @type {number}
 @private
 ^/ this.high_ = high | 0; // force into 32 signed bits.
};
Kotlin.Long.$metadata$ = {
 kind: "class",
 simpleName: "Long",
 interfaces: []
};
// NOTE: Common constant values ZERO, ONE, NEG_ONE, etc. are defined below the from* methods on which they depend.
// from* methods on which they depend.
// A cache of the Long representations of small integer values.
@type {!Object}
@private
^/Kotlin.Long.IntCache_ = {};
// Returns a Long representing the given (32-bit) integer value.
@param {number} value The 32-bit integer in question.
@return {!Kotlin.Long} The corresponding Long value.
^/Kotlin.Long.fromInt = function(value) {
 if (-128 <= value && value < 128) {
 var cachedObj = Kotlin.Long.IntCache_[value];
 if (cachedObj) {
 return cachedObj;
 }
 var obj = new Kotlin.Long(value | 0, value < 0 ? -1 : 0);
 if (-128 <= value && value < 128) {
 Kotlin.Long.IntCache_[value] = obj;
 }
 return obj;
 }
};
// Converts this number value to `Long`. The fractional part, if any, is rounded down towards zero. Returns zero if this `Double` value is `NaN`, `Long.MIN_VALUE` if it's less than `Long.MIN_VALUE`, `Long.MAX_VALUE` if it's bigger than `Long.MAX_VALUE`.
@param {number} value The number in question.
@return {!Kotlin.Long} The corresponding Long value.
^/Kotlin.Long.fromNumber = function(value) {
 if (isNaN(value)) {
 return Kotlin.Long.ZERO;
 } else if (value <= -Kotlin.Long.TWO_PWR_63_DBL_) {
 return Kotlin.Long.MIN_VALUE;
 } else if (value + 1 >= Kotlin.Long.TWO_PWR_63_DBL_) {
 return Kotlin.Long.MAX_VALUE;
 } else if (value < 0) {
 return Kotlin.Long.fromNumber(-value).negate();
 } else {
 return new Kotlin.Long(
 (value % Kotlin.Long.TWO_PWR_32_DBL_) | 0,
 (value / Kotlin.Long.TWO_PWR_32_DBL_) | 0);
 }
};
// Returns a Long representing the 64-bit integer that comes by concatenating the given high and low bits. Each is assumed to use 32 bits.
@param {number} lowBits The low 32-bits.
@param {number} highBits The high 32-bits.
@return {!Kotlin.Long} The corresponding Long value.
^/Kotlin.Long.fromBits = function(lowBits, highBits) {
 return new Kotlin.Long(lowBits, highBits);
};
// Returns a Long representation of the given string, written using the given radix.
@param {string} str The textual representation of the Long.
@param {number=} opt_radix The radix in which the text is written.
@return {!Kotlin.Long} The corresponding Long value.
^/Kotlin.Long.fromString = function(str, opt_radix) {
 if (str.length == 0) {
 throw Error('number format error: empty string');
 }
 var radix = opt_radix || 10;
 if (radix < 2 || 36 < radix) {
 throw Error('radix out of range: ' + radix);
 }
 if (str.charAt(0) == '-') {
 return Kotlin.Long.fromString(str.substring(1), radix).negate();
 } else if (str.indexOf('-') >= 0) {
 throw Error('number format error: interior "-" character: ' + str);
 }
 // Do several (8) digits each time through the loop, so as to minimize the calls to the very expensive emulated div.
 var radixToPower = Kotlin.Long.fromNumber(Math.pow(radix, 8));
 var result = Kotlin.Long.ZERO;
 for (var i = 0; i < str.length; i += 8) {
 var size = Math.min(8, str.length - i);
 var value = parseInt(str.substring(i, i + size), radix);
 if (size < 8) {
 var power = Kotlin.Long.fromNumber(Math.pow(radix, size));
 result =

```

```

result.multiply(power).add(Kotlin.Long.fromNumber(value));\n } else {\n result =
result.multiply(radixToPower);\n result = result.add(Kotlin.Long.fromNumber(value));\n }\n }\n return
result;\n};\n\n\n// NOTE: the compiler should inline these constant values below and then remove\n// these
variables, so there should be no runtime penalty for these.\n\n\n/**\n * Number used repeated below in calculations.
This must appear before the\n * first call to any from* function below.\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_16_DBL_ = 1 << 16;\n\n\n/**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_24_DBL_ = 1 << 24;\n\n\n/**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_32_DBL_ =\n Kotlin.Long.TWO_PWR_16_DBL_ *
Kotlin.Long.TWO_PWR_16_DBL_;\n\n\n/**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_31_DBL_ =\n Kotlin.Long.TWO_PWR_32_DBL_ / 2;\n\n\n/**\n * @type
{number}\n * @private\n *\nKotlin.Long.TWO_PWR_48_DBL_ =\n Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_16_DBL_;\n\n\n/**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_64_DBL_ =\n Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_32_DBL_;\n\n\n/**\n * @type {number}\n * @private\n
*\nKotlin.Long.TWO_PWR_63_DBL_ =\n Kotlin.Long.TWO_PWR_64_DBL_ / 2;\n\n\n/** @type
{!Kotlin.Long} *\nKotlin.Long.ZERO = Kotlin.Long.fromInt(0);\n\n\n/** @type {!Kotlin.Long}
*\nKotlin.Long.ONE = Kotlin.Long.fromInt(1);\n\n\n/** @type {!Kotlin.Long} *\nKotlin.Long.NEG_ONE =
Kotlin.Long.fromInt(-1);\n\n\n/** @type {!Kotlin.Long} *\nKotlin.Long.MAX_VALUE =\n
Kotlin.Long.fromBits(0xFFFFFFFF | 0, 0x7FFFFFFF | 0);\n\n\n/** @type {!Kotlin.Long}
*\nKotlin.Long.MIN_VALUE = Kotlin.Long.fromBits(0, 0x80000000 | 0);\n\n\n/**\n * @type {!Kotlin.Long}\n *
@private\n *\nKotlin.Long.TWO_PWR_24_ = Kotlin.Long.fromInt(1 << 24);\n\n\n/** @return {number} The
value, assuming it is a 32-bit integer. *\nKotlin.Long.prototype.toInt = function() {\n return this.low_;\n};\n\n\n/**
@return {number} The closest floating-point representation to this value. *\nKotlin.Long.prototype.toNumber =
function() {\n return this.high_ * Kotlin.Long.TWO_PWR_32_DBL_ +\n
this.getLowBitsUnsigned();\n};\n\n\n/** @return {number} The 32-bit hashCode of this value.
*\nKotlin.Long.prototype.hashCode = function() {\n return this.high_ ^ this.low_;\n};\n\n\n/**\n * @param
{number=} opt_radix The radix in which the text should be written.\n * @return {string} The textual representation
of this value.\n * @override\n *\nKotlin.Long.prototype.toString = function(opt_radix) {\n var radix = opt_radix ||
10;\n if (radix < 2 || 36 < radix) {\n throw Error('radix out of range: ' + radix);\n }\n\n if (this.isZero()) {\n
return '0';\n }\n\n if (this.isNegative()) {\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n // We need to
change the Long value before it can be negated, so we remove\n // the bottom-most digit in this base and then
recurse to do the rest.\n var radixLong = Kotlin.Long.fromNumber(radix);\n var div = this.div(radixLong);\n
var rem = div.multiply(radixLong).subtract(this);\n return div.toString(radix) + rem.toInt().toString(radix);\n }
else {\n return '-' + this.negate().toString(radix);\n }\n }\n\n // Do several (6) 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, 6));\n var rem = this;\n var result = '';\n while (true) {\n var
remDiv = rem.div(radixToPower);\n var intVal = rem.subtract(remDiv.multiply(radixToPower)).toInt();\n var
digits = intVal.toString(radix);\n rem = remDiv;\n if (rem.isZero()) {\n return digits + result;\n } else {\n
while (digits.length < 6) {\n digits = '0' + digits;\n }\n result = " + digits + result;\n }\n }\n};\n\n\n/**
@return {number} The high 32-bits as a signed value. *\nKotlin.Long.prototype.getHighBits = function() {\n
return this.high_;\n};\n\n\n/** @return {number} The low 32-bits as a signed value.
*\nKotlin.Long.prototype.getLowBits = function() {\n return this.low_;\n};\n\n\n/** @return {number} The low
32-bits as an unsigned value. *\nKotlin.Long.prototype.getLowBitsUnsigned = function() {\n return (this.low_ >=
0) ?\n this.low_ : Kotlin.Long.TWO_PWR_32_DBL_ + this.low_;\n};\n\n\n/**\n * @return {number} Returns
the number of bits needed to represent the absolute\n * value of this Long.\n
*\nKotlin.Long.prototype.getNumBitsAbs = function() {\n if (this.isNegative()) {\n if
(this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return 64;\n } else {\n return
this.negate().getNumBitsAbs();\n }\n } else {\n var val = this.high_ != 0 ? this.high_ : this.low_;\n for (var bit

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= 31; bit > 0; bit--) {\n if ((val & (1 << bit)) != 0) {\n break;\n }\n return this.high_ != 0 ? bit + 33
: bit + 1;\n }\n};\n\n/** @return {boolean} Whether this value is zero. */\nKotlin.Long.prototype.isZero =
function() {\n return this.high_ == 0 && this.low_ == 0;\n};\n\n/** @return {boolean} Whether this value is
negative. */\nKotlin.Long.prototype.isNegative = function() {\n return this.high_ < 0;\n};\n\n/** @return
{boolean} Whether this value is odd. */\nKotlin.Long.prototype.isOdd = function() {\n return (this.low_ & 1) ==
1;\n};\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this
Long equals the other.\n */\nKotlin.Long.prototype.equalsLong = function(other) {\n return (this.high_ ==
other.high_) && (this.low_ == other.low_);\n};\n\n/**\n * @param {Kotlin.Long} other Long to compare
against.\n * @return {boolean} Whether this Long does not equal the other.\n
*/\nKotlin.Long.prototype.notEqualsLong = function(other) {\n return (this.high_ != other.high_) || (this.low_ !=
other.low_);\n};\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean}
Whether this Long is less than the other.\n */\nKotlin.Long.prototype.lessThan = function(other) {\n return
this.compare(other) < 0;\n};\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return
{boolean} Whether this Long is less than or equal to the other.\n */\nKotlin.Long.prototype.lessThanOrEqual =
function(other) {\n return this.compare(other) <= 0;\n};\n\n/**\n * @param {Kotlin.Long} other Long to
compare against.\n * @return {boolean} Whether this Long is greater than the other.\n
*/\nKotlin.Long.prototype.greaterThan = function(other) {\n return this.compare(other) > 0;\n};\n\n/**\n *
@param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is greater than or
equal to the other.\n */\nKotlin.Long.prototype.greaterThanOrEqual = function(other) {\n return
this.compare(other) >= 0;\n};\n\n/**\n * Compares this Long with the given one.\n * @param {Kotlin.Long}
other Long to compare against.\n * @return {number} 0 if they are the same, 1 if the this is greater, and -1\n * if
the given one is greater.\n */\nKotlin.Long.prototype.compare = function(other) {\n if (this.equalsLong(other)) {\n
return 0;\n }\n\n var thisNeg = this.isNegative();\n var otherNeg = other.isNegative();\n if (thisNeg &&
!otherNeg) {\n return -1;\n }\n if (!thisNeg && otherNeg) {\n return 1;\n }\n\n // at this point, the signs are the
same, so subtraction will not overflow\n if (this.subtract(other).isNegative()) {\n return -1;\n } else {\n return
1;\n }\n};\n\n/** @return {!Kotlin.Long} The negation of this value. */\nKotlin.Long.prototype.negate =
function() {\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n return Kotlin.Long.MIN_VALUE;\n } else
{\n return this.not().add(Kotlin.Long.ONE);\n }\n};\n\n/**\n * Returns the sum of this and the given Long.\n
* @param {Kotlin.Long} other Long to add to this one.\n * @return {!Kotlin.Long} The sum of this and the given
Long.\n */\nKotlin.Long.prototype.add = function(other) {\n // Divide each number into 4 chunks of 16 bits, and
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 * 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

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the other.\n *^nKotlin.Long.prototype.or = function(other) {\n return Kotlin.Long.fromBits(this.low_ |
other.low_,\n this.high_ | other.high_);\n};\n\n/n/n/**\n * Returns the bitwise-XOR of this Long
and the given one.\n * @param {Kotlin.Long} other The Long with which to XOR.\n * @return {!Kotlin.Long}
The bitwise-XOR of this and the other.\n *^nKotlin.Long.prototype.xor = function(other) {\n return
Kotlin.Long.fromBits(this.low_ ^ other.low_,\n this.high_ ^ other.high_);\n};\n\n/n/n/**\n *
Returns this Long with bits shifted to the left by the given amount.\n * @param {number} numBits The number of
bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the left by the given amount.\n
*^nKotlin.Long.prototype.shiftLeft = function(numBits) {\n numBits &= 63;\n if (numBits == 0) {\n return
this;\n } else {\n var low = this.low_;\n if (numBits < 32) {\n var high = this.high_;\n return
Kotlin.Long.fromBits(\n low << numBits,\n (high << numBits) | (low >>> (32 - numBits)));\n } else
{\n return Kotlin.Long.fromBits(0, low << (numBits - 32));\n }\n }\n};\n\n/n/n/**\n * Returns this Long with
bits shifted to the right by the given amount.\n * @param {number} numBits The number of bits by which to shift.\n
* @return {!Kotlin.Long} This shifted to the right by the given amount.\n *^nKotlin.Long.prototype.shiftRight =
function(numBits) {\n numBits &= 63;\n if (numBits == 0) {\n return this;\n } else {\n var high =
this.high_;\n if (numBits < 32) {\n var low = this.low_;\n return Kotlin.Long.fromBits(\n (low >>> numBits) | (high
<<< (32 - numBits)),\n high >> numBits);\n } else {\n return Kotlin.Long.fromBits(\n high >>
(numBits - 32),\n high >= 0 ? 0 : -1);\n }\n }\n};\n\n/n/n/**\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/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
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. \n * Use 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 * @param {string} id\n * @param {Object} declaration\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

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throwMarkerError();\n};\n\nfunction throwMarkerError() {\n throw new Error(\n \"This marker function\n should never be called. \" +\n \"Looks like compiler did not eliminate it properly. \" +\n \"Please, report\n an issue if you caught this exception.\");\n}\n\nKotlin.getFunctionById = function(id, defaultValue) {\n return\n function() {\n return defaultValue;\n };\n};\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\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\n 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\n 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 =\n function(value) {\n return Kotlin.doubleToRawBits(isNaN(value) ? NaN : value);\n };\n\n Kotlin.doubleToRawBits = function(value) {\n bufFloat64[0] = value;\n return\n Kotlin.Long.fromBits(bufInt32[lowIndex], bufInt32[highIndex]);\n };\n\n Kotlin.doubleFromBits =\n function(value) {\n bufInt32[lowIndex] = value.low_;\n bufInt32[highIndex] = value.high_;\n return\n bufFloat64[0];\n };\n\n Kotlin.floatToBits = function(value) {\n return Kotlin.floatToRawBits(isNaN(value)\n ? NaN : value);\n };\n\n Kotlin.floatToRawBits = function(value) {\n bufFloat32[0] = value;\n return\n bufInt32[0];\n };\n\n Kotlin.floatFromBits = function(value) {\n bufInt32[0] = value;\n return\n bufFloat32[0];\n };\n\n // returns zero value for number with positive sign bit and non-zero value for number\n with negative sign bit.\n Kotlin.doubleSignBit = function(value) {\n bufFloat64[0] = value;\n return\n bufInt32[highIndex] & 0x80000000;\n };\n\n Kotlin.numberHashCode = function(obj) {\n if ((obj | 0) ===\n obj) {\n return obj | 0;\n }\n else {\n bufFloat64[0] = obj;\n return (bufInt32[highIndex]\n * 31 | 0) + bufInt32[lowIndex] | 0;\n }\n };\n\n Kotlin.ensureNotNull = function(x) {\n return x != null\n ? x : Kotlin.throwNPE();\n };\n\n /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language\n contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\n license/LICENSE.txt file.\n */\n\n if (typeof String.prototype.startsWith === \"undefined\") {\n Object.defineProperty(String.prototype, \"startsWith\", {\n value: function (searchString, position) {\n position = position || 0;\n return this.lastIndexOf(searchString, position) === position;\n }\n });\n }\n\n if (typeof String.prototype.endsWith === \"undefined\") {\n Object.defineProperty(String.prototype, \"endsWith\", {\n value: function (searchString, position) {\n var subjectString = this.toString();\n if (position\n === undefined || position > subjectString.length) {\n position = subjectString.length;\n }\n\n position -= searchString.length;\n var lastIndex = subjectString.indexOf(searchString, position);\n return lastIndex !== -1 && lastIndex === position;\n }\n });\n }\n\n // ES6 Math polyfills\n if (typeof Math.sign\n === \"undefined\") {\n Math.sign = function(x) {\n x = +x; // convert to a number\n if (x === 0 ||\n isNaN(x)) {\n return Number(x);\n }\n return x > 0 ? 1 : -1;\n };\n }\n\n if (typeof Math.trunc\n === \"undefined\") {\n Math.trunc = function(x) {\n if (isNaN(x)) {\n return NaN;\n }\n if (x > 0)\n {\n return Math.floor(x);\n }\n return Math.ceil(x);\n };\n }\n\n (function() {\n var epsilon =\n 2.220446049250313E-16;\n var taylor_2_bound = Math.sqrt(epsilon);\n var taylor_n_bound =\n Math.sqrt(taylor_2_bound);\n var upper_taylor_2_bound = 1/taylor_2_bound;\n var upper_taylor_n_bound =\n 1/taylor_n_bound;\n\n if (typeof Math.sinh === \"undefined\") {\n Math.sinh = function(x) {\n if

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(Math.abs(x) < taylor_n_bound) {\n var result = x;\n if (Math.abs(x) > taylor_2_bound) {\n result += (x * x * x) / 6;\n }\n return result;\n } else {\n var y = Math.exp(x);\n var y1 = 1 / y;\n if (!isFinite(y)) return Math.exp(x - Math.LN2);\n if (!isFinite(y1)) return -Math.exp(-x - Math.LN2);\n return (y - y1) / 2;\n }\n }\n if (typeof Math.cosh === \"undefined\") {\n Math.cosh = function(x) {\n var y = Math.exp(x);\n var y1 = 1 / y;\n if (!isFinite(y) || !isFinite(y1)) return Math.exp(Math.abs(x) - Math.LN2);\n return (y + y1) / 2;\n };\n }\n if (typeof Math.tanh === \"undefined\") {\n Math.tanh = function(x) {\n if (Math.abs(x) < taylor_n_bound) {\n var result = x;\n if (Math.abs(x) > taylor_2_bound) {\n result -= (x * x * x) / 3;\n }\n return result;\n } else {\n var a = Math.exp(+x), b = Math.exp(-x);\n return a === Infinity ? 1 : b === Infinity ? -1 : (a - b) / (a + b);\n }\n };\n }\n // Inverse hyperbolic function implementations derived from boost special math functions,\n // Copyright Eric Ford & Hubert Holin 2001.\n if (typeof Math.asinh === \"undefined\") {\n var asinh = function(x) {\n if (x >= +taylor_n_bound)\n {\n if (x > upper_taylor_n_bound)\n {\n // approximation by laurent series in 1/x at 0+ order from -1 to 0\n return Math.log(x) + Math.LN2;\n }\n else\n {\n // approximation by laurent series in 1/x at 0+ order from -1 to 1\n return Math.log(x * 2 + (1 / (x * 2)));\n }\n }\n }\n else if (x <= -taylor_n_bound)\n {\n // approximation by laurent series in x at 0 up to order 2\n var result = x;\n if (Math.abs(x) >= taylor_2_bound)\n {\n var x3 = x * x * x;\n // approximation by taylor series in x at 0 up to order 4\n result -= x3 / 6;\n }\n return result;\n }\n };\n Math.asinh = asinh;\n }\n if (typeof Math.acosh === \"undefined\") {\n Math.acosh = function(x) {\n if (x < 1)\n {\n return NaN;\n }\n else if (x - 1 >= taylor_n_bound)\n {\n if (x > upper_taylor_2_bound)\n {\n // approximation by laurent series in 1/x at 0+ order from -1 to 0\n return Math.log(x) + Math.LN2;\n }\n else\n {\n return Math.log(x + Math.sqrt(x * x - 1));\n }\n }\n }\n else\n {\n var y = Math.sqrt(x - 1);\n // approximation by taylor series in y at 0 up to order 2\n var result = y;\n if (y >= taylor_2_bound)\n {\n var y3 = y * y * y;\n // approximation by taylor series in y at 0 up to order 4\n result -= y3 / 12;\n }\n return Math.sqrt(2) * result;\n }\n };\n }\n }\n if (typeof Math.atanh === \"undefined\") {\n Math.atanh = function(x) {\n if (Math.abs(x) < taylor_n_bound) {\n var result = x;\n if (Math.abs(x) > taylor_2_bound) {\n result += (x * x * x) / 3;\n }\n return result;\n }\n return Math.log((1 + x) / (1 - x)) / 2;\n };\n }\n if (typeof Math.log1p === \"undefined\") {\n Math.log1p = function(x) {\n if (Math.abs(x) < taylor_n_bound) {\n var x2 = x * x;\n var x3 = x2 * x;\n var x4 = x3 * x;\n // approximation by taylor series in x at 0 up to order 4\n return (-x4 / 4 + x3 / 3 - x2 / 2 + x);\n }\n return Math.log(x + 1);\n };\n }\n if (typeof Math.expm1 === \"undefined\") {\n Math.expm1 = function(x) {\n if (Math.abs(x) < taylor_n_bound) {\n var x2 = x * x;\n var x3 = x2 * x;\n var x4 = x3 * x;\n // approximation by taylor series in x at 0 up to order 4\n return (x4 / 24 + x3 / 6 + x2 / 2 + x);\n }\n return Math.exp(x) - 1;\n };\n }\n if (typeof Math.hypot === \"undefined\") {\n Math.hypot = function() {\n var y = 0;\n var length = arguments.length;\n for (var i = 0; i < length; i++) {\n if (arguments[i] === Infinity || arguments[i] === -Infinity) {\n return Infinity;\n }\n y += arguments[i] * arguments[i];\n }\n return Math.sqrt(y);\n };\n }\n if (typeof Math.log10 === \"undefined\") {\n Math.log10 = function(x) {\n return Math.log(x) * Math.LOG10E;\n };\n }\n if (typeof Math.log2 === \"undefined\") {\n Math.log2 = function(x) {\n return Math.log(x) * Math.LOG2E;\n };\n }\n if (typeof Math.clz32 === \"undefined\") {\n Math.clz32 = (function(log, LN2) {\n return function(x) {\n var asUint = x >>> 0;\n if (asUint === 0) {\n return 32;\n }\n return 31 - (log(asUint) / LN2 | 0) | 0; // the \"| 0\" acts like math.floor\n };\n })(Math.log, Math.LN2);\n }\n // For HtmlUnit and

```

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PhantomJs\nif (typeof ArrayBuffer.isView === "undefined") {\n ArrayBuffer.isView = function(a) {\n
return a != null && a.__proto__ != null && a.__proto__.__proto__ === Int8Array.prototype.__proto__;\n
};\n}\n\nif (typeof Array.prototype.fill === "undefined") {\n // Polyfill from https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/Array/fill#Polyfill\n Object.defineProperty(Array.prototype,
'fill', {\n value: function (value) {\n\n // Steps 1-2.\n if (this == null) {\n throw new
TypeError('this is null or not defined');\n }\n var O = Object(this);\n // Steps 3-5.\n var len = O.length >>> 0;\n // Steps 6-7.\n var start = arguments[1];\n var relativeStart = start
>> 0;\n // Step 8.\n var k = relativeStart < 0 ?\n Math.max(len + relativeStart, 0) :\n Math.min(relativeStart, len);\n // Steps 9-10.\n var end = arguments[2];\n var
relativeEnd = end === undefined ?\n len : end >> 0;\n // Step 11.\n var finalValue
= relativeEnd < 0 ?\n Math.max(len + relativeEnd, 0) :\n Math.min(relativeEnd,
len);\n // Step 12.\n while (k < finalValue) {\n O[k] = value;\n k++;\n }\n // Step 13.\n return O;\n }\n });\n}\n\n(function() {\n function normalizeOffset(offset, length)
{\n if (offset < 0) return Math.max(0, offset + length);\n return Math.min(offset, length);\n }\n function
typedArraySlice(begin, end) {\n if (typeof end === "undefined") {\n end = this.length;\n }\n begin =
normalizeOffset(begin || 0, this.length);\n end = Math.max(begin, normalizeOffset(end, this.length));\n return
new this.constructor(this.subarray(begin, end));\n }\n\n var arrays = [Int8Array, Int16Array,
Uint16Array, Int32Array, Float32Array, Float64Array];\n for (var i = 0; i < arrays.length; ++i) {\n var
TypedArray = arrays[i];\n if (typeof TypedArray.prototype.fill === "undefined") {\n Object.defineProperty(TypedArray.prototype, 'fill', {\n value: Array.prototype.fill\n });\n }\n if (typeof TypedArray.prototype.slice === "undefined") {\n Object.defineProperty(TypedArray.prototype, 'slice', {\n value: typedArraySlice\n });\n }\n }\n\n // Patch apply to work with TypedArrays
if needed.\n try {\n (function() {}).apply(null, new Int32Array(0))\n } catch (e) {\n var apply =
Function.prototype.apply;\n Object.defineProperty(Function.prototype, 'apply', {\n value: function(self,
array) {\n return apply.call(this, self, [].slice.call(array));\n }\n });\n }\n\n // Patch map to
work with TypedArrays if needed.\n for (var i = 0; i < arrays.length; ++i) {\n var TypedArray = arrays[i];\n if (typeof TypedArray.prototype.map === "undefined") {\n Object.defineProperty(TypedArray.prototype, 'map', {\n value: function(callback, self) {\n return [].slice.call(this).map(callback, self);\n }\n });\n }\n }\n\n // Patch sort to work with TypedArrays if needed.\n // TODO: consider to
remove following function and replace it with `Kotlin.doubleCompareTo` (see misc.js)\n var
totalOrderComparator = function (a, b) {\n if (a < b) return -1;\n if (a > b) return 1;\n\n if (a === b) {\n if (a !== 0) return 0;\n var ia = 1 / a;\n return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\n }\n\n return a !== a ? (b !== b ? 0 : 1) : -1\n };\n\n for (var i = 0; i < arrays.length; ++i) {\n var TypedArray =
arrays[i];\n if (typeof TypedArray.prototype.sort === "undefined") {\n Object.defineProperty(TypedArray.prototype, 'sort', {\n value: function(compareFunction) {\n return Array.prototype.sort.call(this, compareFunction || totalOrderComparator);\n }\n });\n }\n }\n\n }()\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\n propertyDescriptor
= Object.getOwnPropertyDescriptor(thisObject, propertyName);\n if (propertyDescriptor != null && "value" in
propertyDescriptor) {\n return thisObject[propertyName];\n }\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\n propertyDescriptor = Object.getOwnPropertyDescriptor(thisObject,

```



```

}n return array\n}\n\n@jsName("longArray")nfun longArray(size: Int, init: dynamic): Array<Long> {\n val
result: dynamic = Array<Long>(size)\n result.`$type$` = "LongArray"\n return when (init) {\n null, true ->
fillArrayVal(result, 0L)\n false -> result\n else -> fillArrayFun<Long>(result, init)\n
}\n}\n\n@jsName("longArrayF")ninline fun longArrayWithFun(size: Int, init: (Int) -> Long): Array<Long> =
fillArrayFun(longArray(size, false), init)\n\nprivate fun <T> fillArrayVal(array: Array<T>, initialValue: T): Array<T>
{\n for (i in 0..array.size - 1) {\n array[i] = initialValue\n }\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\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\n val name: String\n get() = _name\n\n val ordinal:
Int\n get() = _ordinal\n\n override fun compareTo(other: Enum<T>) = ordinal.compareTo(other.ordinal)\n\n
override fun equals(other: Any?) = this === other\n\n override fun hashCode(): Int =
js("Kotlin.identityHashCode")(this)\n\n override fun toString() = name\n\n companion object\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.internal\n\n@jsName("DoubleCompanionObject")ninternal object DoubleCompanionObject {\n
@jsName("MIN_VALUE")n const val MIN_VALUE: Double = 4.9E-324\n\n
@jsName("MAX_VALUE")n const val MAX_VALUE: Double = 1.7976931348623157E308\n\n
@jsName("POSITIVE_INFINITY")n @Suppress("DIVISION_BY_ZERO")n const val
POSITIVE_INFINITY: Double = 1.0 / 0.0\n\n @JsName("NEGATIVE_INFINITY")n
@Suppress("DIVISION_BY_ZERO")n const val NEGATIVE_INFINITY: Double = -1.0 / 0.0\n\n
@jsName("NaN")n @Suppress("DIVISION_BY_ZERO")n const val NaN: Double = -(0.0 / 0.0)\n\n
@jsName("SIZE_BYTES")n const val SIZE_BYTES = 8\n\n @JsName("SIZE_BITS")n const val
SIZE_BITS = 64\n}\n\n@jsName("FloatCompanionObject")ninternal object FloatCompanionObject {\n
@jsName("MIN_VALUE")n const val MIN_VALUE: Float = 1.4E-45F\n\n @JsName("MAX_VALUE")n
const val MAX_VALUE: Float = 3.4028235E38F\n\n @JsName("POSITIVE_INFINITY")n
@Suppress("DIVISION_BY_ZERO")n const val POSITIVE_INFINITY: Float = 1.0F / 0.0F\n\n
@jsName("NEGATIVE_INFINITY")n @Suppress("DIVISION_BY_ZERO")n const val
NEGATIVE_INFINITY: Float = -1.0F / 0.0F\n\n @JsName("NaN")n
@Suppress("DIVISION_BY_ZERO")n const val NaN: Float = -(0.0F / 0.0F)\n\n
@jsName("SIZE_BYTES")n const val SIZE_BYTES = 4\n\n @JsName("SIZE_BITS")n const val
SIZE_BITS = 32\n}\n\n@jsName("IntCompanionObject")ninternal object IntCompanionObject {\n
@jsName("MIN_VALUE")n val MIN_VALUE: Int = -2147483647 - 1\n\n @JsName("MAX_VALUE")n
val MAX_VALUE: Int = 2147483647\n\n @JsName("SIZE_BYTES")n const val SIZE_BYTES = 4\n\n
@jsName("SIZE_BITS")n const val SIZE_BITS = 32\n}\n\n@jsName("LongCompanionObject")ninternal
object LongCompanionObject {\n @JsName("MIN_VALUE")n val MIN_VALUE: Long =
js("Kotlin.Long.MIN_VALUE")\n\n @JsName("MAX_VALUE")n val MAX_VALUE: Long =
js("Kotlin.Long.MAX_VALUE")\n\n @JsName("SIZE_BYTES")n const val SIZE_BYTES = 8\n\n
@jsName("SIZE_BITS")n const val SIZE_BITS = 64\n}\n\n@jsName("ShortCompanionObject")ninternal
object ShortCompanionObject {\n @JsName("MIN_VALUE")n val MIN_VALUE: Short = -32768\n\n
@jsName("MAX_VALUE")n val MAX_VALUE: Short = 32767\n\n @JsName("SIZE_BYTES")n const
val SIZE_BYTES = 2\n\n @JsName("SIZE_BITS")n const val SIZE_BITS =
16\n}\n\n@jsName("ByteCompanionObject")ninternal object ByteCompanionObject {\n
@jsName("MIN_VALUE")n val MIN_VALUE: Byte = -128\n\n @JsName("MAX_VALUE")n val
MAX_VALUE: Byte = 127\n\n @JsName("SIZE_BYTES")n const val SIZE_BYTES = 1\n\n
@jsName("SIZE_BITS")n const val SIZE_BITS = 8\n}\n\n@jsName("CharCompanionObject")ninternal
object CharCompanionObject {\n @JsName("MIN_VALUE")n public const val MIN_VALUE: Char =
"\u0000"\n\n @JsName("MAX_VALUE")n public const val MAX_VALUE: Char = "\uFFFF"\n\n

```



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

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

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

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

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

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

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

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

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

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

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

```
*\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component3(): Char {\n return
get(2)\n}\n\n/**\n * Returns 4th *element* from the array.\n * \n * If the size of this array is less than 4, throws an
```

[IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior is unspecified.\n

```
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component4(): T {\n return\n 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\n [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\n 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\n [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\n 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\n [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\n 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\n [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\n 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\n [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\n 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\n [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\n 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\n [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\n 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\n [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\n 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\n [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\n 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\n [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\n 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\n [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\n 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\n [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\n 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\n [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\n 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\n [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\n 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\n [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\n 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\npublic 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\npublic operator fun
ByteArray.contains(element: Byte): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if
[element] is found in the array.\n * \n\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\n@Deprecated("The
function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'any { it ==
element }' instead to continue using this behavior, or '.asList().contains(element: T)' to get the same search behavior
as in a list.", ReplaceWith("any { it == element }"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.6")\n@Suppress("DEPRECATION_ERROR")\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\n@Deprecated("The function has unclear behavior when searching for NaN or zero values and will be removed
soon. Use 'any { it == element }' instead to continue using this behavior, or '.asList().contains(element: T)' to get the
same search behavior as in a list.", ReplaceWith("any { it == element
}"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.6")\n@Suppress("DEPRECATION_ERROR")\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):

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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 \* @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 \* @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 \* @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 \* @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 \* @sample samples.collections.Collections.Elements.elementAtOrElse\n \* \n\n@kotlin.internal.InlineOnly\n\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\n@kotlin.internal.InlineOnly\n\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\n@kotlin.internal.InlineOnly\n\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\n@kotlin.internal.InlineOnly\n\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\n@kotlin.internal.InlineOnly\n\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\n@kotlin.internal.InlineOnly\n\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\n@kotlin.internal.InlineOnly\n\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\n@kotlin.internal.InlineOnly\n\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\n@kotlin.internal.InlineOnly\n\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

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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
samples.collections.Collections.Elements.elementAtOrNull\n *^n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.elementAtOrNull(index: Int): Char? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns the first
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out
T>.find(predicate: (T) -> Boolean): T? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element
matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.find(predicate: (Byte) -> Boolean): Byte? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.find(predicate: (Short) -> Boolean): Short? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.find(predicate: (Int) -> Boolean): Int? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.find(predicate: (Long) -> Boolean): Long? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.find(predicate: (Float) -> Boolean): Float? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.find(predicate: (Double) -> Boolean): Double? {\n return firstOrNull(predicate)\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.find(predicate: (Boolean) -> Boolean): Boolean? {\n return firstOrNull(predicate)\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.find(predicate: (Char) -> Boolean): Char? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the
last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n *^n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out
T>.findLast(predicate: (T) -> Boolean): T? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element

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

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samples.collections.Collections.Elements.find
ByteArrayList.findLast(predicate: (Byte) -> Boolean): Byte? {
 return lastOrNull(predicate)
}
ShortArrayList.findLast(predicate: (Short) -> Boolean): Short? {
 return lastOrNull(predicate)
}
IntArray.findLast(predicate: (Int) -> Boolean): Int? {
 return lastOrNull(predicate)
}
LongArrayList.findLast(predicate: (Long) -> Boolean): Long? {
 return lastOrNull(predicate)
}
FloatArrayList.findLast(predicate: (Float) -> Boolean): Float? {
 return lastOrNull(predicate)
}
DoubleArrayList.findLast(predicate: (Double) -> Boolean): Double? {
 return lastOrNull(predicate)
}
BooleanArrayList.findLast(predicate: (Boolean) -> Boolean): Boolean? {
 return lastOrNull(predicate)
}
CharArray.findLast(predicate: (Char) -> Boolean): Char? {
 return lastOrNull(predicate)
}

@throws [NoSuchElementException] if the array is empty.
public fun <T> Array<out T>.first(): T {
 if (isEmpty())
 throw NoSuchElementException("Array is empty.")
 return this[0]
}
public fun ByteArray.first(): Byte {
 if (isEmpty())
 throw NoSuchElementException("Array is empty.")
 return this[0]
}
public fun ShortArray.first(): Short {
 if (isEmpty())
 throw NoSuchElementException("Array is empty.")
 return this[0]
}
public fun IntArray.first(): Int {
 if (isEmpty())
 throw NoSuchElementException("Array is empty.")
 return this[0]
}
public fun LongArray.first(): Long {
 if (isEmpty())
 throw NoSuchElementException("Array is empty.")
 return this[0]
}
public fun FloatArray.first(): Float {
 if (isEmpty())
 throw NoSuchElementException("Array is empty.")
 return this[0]
}
public fun DoubleArray.first(): Double {
 if (isEmpty())
 throw NoSuchElementException("Array is empty.")
 return this[0]
}
public fun BooleanArray.first(): Boolean {
 if (isEmpty())
 throw NoSuchElementException("Array is empty.")
 return this[0]
}
public fun CharArray.first(): Char {
 if (isEmpty())
 throw NoSuchElementException("Array is empty.")
 return this[0]
}

Returns the first element matching the given [predicate].
@throws [NoSuchElementException] if no such element is found.
public inline fun <T> Array<out T>.first(predicate: (T) -> Boolean): T {
 for (element in this) if (predicate(element)) return element
 throw NoSuchElementException("Array contains no element matching the predicate.")
}
Returns the first element matching the given [predicate].
@throws [NoSuchElementException] if no such

```

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element is found.\n *^public 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 *^public 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
*^public 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 *^public 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
*^public 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 *^public 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
*^public 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 *^public 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
non-null value produced by [transform] function being applied to elements of this array in iteration order,\n * or
throws [NoSuchElementException] if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n
*^@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any> Array<out
T>.firstNotNullOf(transform: (T) -> R?): R {\n return firstNotNullOfOrNull(transform) ?: throw
NoSuchElementException("No element of the array was transformed to a non-null value.")\n}\n\n/**\n * Returns
the first non-null value produced by [transform] function being applied to elements of this array in iteration order,\n
* or `null` if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n
*^@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any> Array<out
T>.firstNotNullOfOrNull(transform: (T) -> R?): R? {\n for (element in this) {\n val result =
transform(element)\n if (result != null) {\n return result\n }\n }\n return null\n}\n\n/**\n *
Returns the first element, or `null` if the array is empty.\n *^public fun <T> Array<out T>.firstOrNull(): T? {\n
return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n
*^public 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 *^public 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
*^public 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 *^public 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 *^public fun
FloatArray.firstOrNull(): Float? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element,

```

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or `null` if the array is empty.\n *^public 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 *^public 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 *^public 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 *^public 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 *^public 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 *^public 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 *^public 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 *^public 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 *^public 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 *^public 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 *^public 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
*^public 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
*^@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 *^@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 *^@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 *^@kotlin.internal.InlineOnly\npublic inline fun
IntArray.getOrNull(index: Int, defaultValue: (Int) -> Int): Int? {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of
calling the [defaultValue] function if the [index] is out of bounds of this array.\n *^@kotlin.internal.InlineOnly\n
public inline fun LongArray.getOrNull(index: Int, defaultValue: (Int) -> Long): Long? {\n return if (index >= 0
&& index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index]
or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n
*^@kotlin.internal.InlineOnly\npublic inline fun FloatArray.getOrNull(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.getOrNull(index: Int, defaultValue:

```



first index of [element], or -1 if the array does not contain element.

`@Deprecated`("The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfFirst { it == element }' instead to continue using this behavior, or '.asList().indexOf(element: T)' to get the same search behavior as in a list.", ReplaceWith("indexOfFirst { it == element }"))

`@DeprecatedSinceKotlin`(warningSince = "1.4", errorSince = "1.6")

```
public fun FloatArray.indexOf(element: Float): Int {
 for (index in indices) {
 if (element == this[index]) {
 return index
 }
 }
 return -1
}
```

\* Returns first index of [element], or -1 if the array does not contain element.

`@Deprecated`("The function has unclear behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfFirst { it == element }' instead to continue using this behavior, or '.asList().indexOf(element: T)' to get the same search behavior as in a list.", ReplaceWith("indexOfFirst { it == element }"))

`@DeprecatedSinceKotlin`(warningSince = "1.4", errorSince = "1.6")

```
public fun DoubleArray.indexOf(element: Double): Int {
 for (index in indices) {
 if (element == this[index]) {
 return index
 }
 }
 return -1
}
```

\* Returns first index of [element], or -1 if the array does not contain element.

```
public fun BooleanArray.indexOf(element: Boolean): Int {
 for (index in indices) {
 if (element == this[index]) {
 return index
 }
 }
 return -1
}
```

\* Returns first index of [element], or -1 if the array does not contain element.

```
public fun CharArray.indexOf(element: Char): Int {
 for (index in indices) {
 if (element == this[index]) {
 return index
 }
 }
 return -1
}
```

\* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```
public inline fun <T> Array<out T>.indexOfFirst(predicate: (T) -> Boolean): Int {
 for (index in indices) {
 if (predicate(this[index])) {
 return index
 }
 }
 return -1
}
```

\* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```
public inline fun ByteArray.indexOfFirst(predicate: (Byte) -> Boolean): Int {
 for (index in indices) {
 if (predicate(this[index])) {
 return index
 }
 }
 return -1
}
```

\* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```
public inline fun ShortArray.indexOfFirst(predicate: (Short) -> Boolean): Int {
 for (index in indices) {
 if (predicate(this[index])) {
 return index
 }
 }
 return -1
}
```

\* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```
public inline fun IntArray.indexOfFirst(predicate: (Int) -> Boolean): Int {
 for (index in indices) {
 if (predicate(this[index])) {
 return index
 }
 }
 return -1
}
```

\* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```
public inline fun LongArray.indexOfFirst(predicate: (Long) -> Boolean): Int {
 for (index in indices) {
 if (predicate(this[index])) {
 return index
 }
 }
 return -1
}
```

\* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```
public inline fun FloatArray.indexOfFirst(predicate: (Float) -> Boolean): Int {
 for (index in indices) {
 if (predicate(this[index])) {
 return index
 }
 }
 return -1
}
```

\* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```
public inline fun DoubleArray.indexOfFirst(predicate: (Double) -> Boolean): Int {
 for (index in indices) {
 if (predicate(this[index])) {
 return index
 }
 }
 return -1
}
```

\* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```
public inline fun BooleanArray.indexOfFirst(predicate: (Boolean) -> Boolean): Int {
 for (index in indices) {
 if (predicate(this[index])) {
 return index
 }
 }
 return -1
}
```

\* Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.

```
public inline fun CharArray.indexOfFirst(predicate: (Char) -> Boolean): Int {
 for (index in indices) {
 if (predicate(this[index])) {
 return index
 }
 }
 return -1
}
```

\* Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

```
public inline fun <T> Array<out T>.indexOfLast(predicate: (T) -> Boolean): Int {
 for (index in indices.reversed()) {
 if (predicate(this[index])) {
 return index
 }
 }
 return -1
}
```

\* Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.

```

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
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 */
\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun <T> Array<out T>.last(): T {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last
element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun ByteArray.last(): Byte {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last
element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun ShortArray.last(): Short {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last
element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun IntArray.last(): Int {\n if (isEmpty())\n throw
NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n */
\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun LongArray.last(): Long {\n if (isEmpty())\n throw
NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last
element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun FloatArray.last(): Float {\n if (isEmpty())\n throw
NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last
element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun DoubleArray.last(): Double {\n if (isEmpty())\n throw
NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last
element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun BooleanArray.last(): Boolean {\n if (isEmpty())\n throw
NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last
element.\n */\n * @throws NoSuchElementException if the array is empty.\n */\n * @sample

```

```

samples.collections.Collections.Elements.last\n */\npublic fun CharArray.last(): Char {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Array<out T>.last(predicate: (T) -> Boolean): T {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun ByteArray.last(predicate: (Byte) -> Boolean): Byte {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun ShortArray.last(predicate: (Short) -> Boolean): Short {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun IntArray.last(predicate: (Int) -> Boolean): Int {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun LongArray.last(predicate: (Long) -> Boolean): Long {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun FloatArray.last(predicate: (Float) -> Boolean): Float {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun DoubleArray.last(predicate: (Double) -> Boolean): Double {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun BooleanArray.last(predicate: (Boolean) -> Boolean): Boolean {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun CharArray.last(predicate: (Char) -> Boolean): Char {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n * \n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.lastIndexOf(element: T): Int {\n if (element == null) {\n

```

```

 for (index in indices.reversed()) {
 if (this[index] == null) return index
 }
} else {
 for (index in indices.reversed()) {
 if (element == this[index]) return index
 }
}
return -1
}

/**
 * Returns last index of [element], or -1 if the array does not contain
 * element.
 */
public fun ByteArray.lastIndexOf(element: Byte): Int {
 for (index in indices.reversed()) {
 if (element == this[index]) return index
 }
 return -1
}

/**
 * Returns last index of [element], or -1 if the array does not contain
 * element.
 */
public fun ShortArray.lastIndexOf(element: Short): Int {
 for (index in indices.reversed()) {
 if (element == this[index]) return index
 }
 return -1
}

/**
 * Returns last index of [element], or -1 if the array does not contain
 * element.
 */
public fun IntArray.lastIndexOf(element: Int): Int {
 for (index in indices.reversed()) {
 if (element == this[index]) return index
 }
 return -1
}

/**
 * Returns last index of [element], or -1 if the array does not
 * contain element.
 */
public fun LongArray.lastIndexOf(element: Long): Int {
 for (index in indices.reversed()) {
 if (element == this[index]) return index
 }
 return -1
}

/**
 * Returns last
 * index of [element], or -1 if the array does not contain element.
 *
 * @Deprecated("The function has unclear
 * behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfLast { it == element }'
 * instead to continue using this behavior, or '.asList().lastIndexOf(element: T)' to get the same search behavior as in a
 * list.", ReplaceWith("indexOfLast { it == element }"))
 */
@DeprecatedSinceKotlin(warningSince = "1.4",
 errorSince = "1.6")
public fun FloatArray.lastIndexOf(element: Float): Int {
 for (index in indices.reversed()) {
 if (element == this[index]) return index
 }
 return -1
}

/**
 * Returns last
 * index of [element], or -1 if the array does not contain element.
 *
 * @Deprecated("The function has unclear
 * behavior when searching for NaN or zero values and will be removed soon. Use 'indexOfLast { it == element }'
 * instead to continue using this behavior, or '.asList().lastIndexOf(element: T)' to get the same search behavior as in a
 * list.", ReplaceWith("indexOfLast { it == element }"))
 */
@DeprecatedSinceKotlin(warningSince = "1.4",
 errorSince = "1.6")
public fun DoubleArray.lastIndexOf(element: Double): Int {
 for (index in
 indices.reversed()) {
 if (element == this[index]) return index
 }
 return -1
}

/**
 * Returns last index of [element], or -1 if the array does not contain element.
 */
public fun
BooleanArray.lastIndexOf(element: Boolean): Int {
 for (index in indices.reversed()) {
 if (element ==
 this[index]) return index
 }
 return -1
}

/**
 * Returns last index of [element], or -1 if
 * the array does not contain element.
 */
public fun CharArray.lastIndexOf(element: Char): Int {
 for (index in
 indices.reversed()) {
 if (element == this[index]) return index
 }
 return -1
}

/**
 * Returns the last element, or `null` if the array is empty.
 */
@sample
samples.collections.Collections.Elements.last

/**
 * Returns the last element, or `null` if the array is empty.
 */
public fun <T> Array<out T>.lastOrNull(): T? {
 return if
 (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element, or `null` if the array is empty.
 */
@sample
samples.collections.Collections.Elements.last

/**
 * Returns the last element, or `null` if the array is empty.
 */
public fun ByteArray.lastOrNull(): Byte? {
 return
 if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element, or `null` if the array is empty.
 */
@sample
samples.collections.Collections.Elements.last

/**
 * Returns the last element, or `null` if the array is empty.
 */
public fun ShortArray.lastOrNull(): Short? {
 return
 if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element, or `null` if the array is empty.
 */
@sample
samples.collections.Collections.Elements.last

/**
 * Returns the last element, or `null` if the array is empty.
 */
public fun IntArray.lastOrNull(): Int? {
 return
 if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element, or `null` if the array is empty.
 */
@sample
samples.collections.Collections.Elements.last

/**
 * Returns the last element, or `null` if the array is empty.
 */
public fun LongArray.lastOrNull(): Long? {
 return
 if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element, or `null` if the array is empty.
 */
@sample
samples.collections.Collections.Elements.last

/**
 * Returns the last element, or `null` if the array is empty.
 */
public fun FloatArray.lastOrNull(): Float? {
 return
 if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element, or `null` if the array is empty.
 */
@sample
samples.collections.Collections.Elements.last

/**
 * Returns the last element, or `null` if the array is empty.
 */
public fun DoubleArray.lastOrNull(): Double? {
 return
 if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element, or `null` if the array is empty.
 */
@sample
samples.collections.Collections.Elements.last

/**
 * Returns the last element, or `null` if the array is
 * empty.
 */
public fun BooleanArray.lastOrNull(): Boolean? {
 return
 if (isEmpty()) null else this[size - 1]
}

/**
 * Returns the last element, or `null` if the array is
 * empty.
 */
@sample
samples.collections.Collections.Elements.last

/**
 * Returns the last element matching the given
 */
public fun CharArray.lastOrNull():
Char? {
 return if (isEmpty()) null else this[size - 1]
}

```

```

[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^/npublic inline fun <T> Array<out T>.lastOrNull(predicate: (T) ->
Boolean): T? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^/npublic inline fun ByteArray.lastOrNull(predicate: (Byte) ->
Boolean): Byte? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^/npublic inline fun ShortArray.lastOrNull(predicate: (Short) ->
Boolean): Short? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^/npublic inline fun IntArray.lastOrNull(predicate: (Int) ->
Boolean): Int? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^/npublic inline fun LongArray.lastOrNull(predicate: (Long) ->
Boolean): Long? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^/npublic inline fun FloatArray.lastOrNull(predicate: (Float) ->
Boolean): Float? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^/npublic inline fun DoubleArray.lastOrNull(predicate: (Double) ->
Boolean): Double? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^/npublic inline fun BooleanArray.lastOrNull(predicate: (Boolean) ->
Boolean): Boolean? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given
[predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n *^/npublic inline fun CharArray.lastOrNull(predicate: (Char) ->
Boolean): Char? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns a random element from this array.\n
* \n * @throws NoSuchElementException if this array is empty.\n
*^/n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.random(): T {\n
return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n *^/n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic
inline fun ByteArray.random(): Byte {\n return random(Random)\n}\n\n/**\n * Returns a random element from
this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*^/n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.random(): Short {\n return
random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws
NoSuchElementException if this array is empty.\n *^/n@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

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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("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun <T> Array<out T>.randomOrNull(): T? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a
random element from this array, or `null` if this array is empty.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npubli
c inline fun ByteArray.randomOrNull(): Byte? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random

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element from this array, or `null` if this array is empty.\n

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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\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
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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\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("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\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("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\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("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\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
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```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\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
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```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\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
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```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T> Array<out T>.randomOrNull(random: Random): T? {\n if (isEmpty())\n return null\n return\n get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n
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```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun\nByteArray.randomOrNull(random: Random): Byte? {\n if (isEmpty())\n return null\n return\n get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n
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```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun\nShortArray.randomOrNull(random: Random): Short? {\n if (isEmpty())\n return null\n return\n get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n
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```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun\nIntArray.randomOrNull(random: Random): Int? {\n if (isEmpty())\n return null\n return\n get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n
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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun\nLongArray.randomOrNull(random: Random): Long? {\n if (isEmpty())\n return null\n return\n get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n
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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun\nFloatArray.randomOrNull(random: Random): Float? {\n if (isEmpty())\n return null\n return\n get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness, or `null` if this array is empty.\n
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*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun\nDoubleArray.randomOrNull(random: Random): Double? {\n if (isEmpty())\n return null\n return\n
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get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
BooleanArray.randomOrNull(random: Random): Boolean? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun
CharArray.randomOrNull(random: Random): Char? {\n if (isEmpty())\n return null\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or
has more than one element.\n *\npublic fun <T> Array<out T>.single(): T {\n return when (size) {\n 0 ->
throw NoSuchElementException("Array is empty.")\n 1 -> this[0]\n else -> throw
IllegalArgumentException("Array has more than one element.")\n }\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n *\npublic fun ByteArray.single(): Byte
{\n return when (size) {\n 0 -> throw NoSuchElementException("Array is empty.")\n 1 -> this[0]\n
else -> throw IllegalArgumentException("Array has more than one element.")\n }\n}\n\n/**\n * Returns the
single element, or throws an exception if the array is empty or has more than one element.\n *\npublic fun
ShortArray.single(): Short {\n return when (size) {\n 0 -> throw NoSuchElementException("Array is
empty.")\n 1 -> this[0]\n else -> throw IllegalArgumentException("Array has more than one element.")\n
}\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one
element.\n *\npublic fun IntArray.single(): Int {\n return when (size) {\n 0 -> throw
NoSuchElementException("Array is empty.")\n 1 -> this[0]\n else -> throw
IllegalArgumentException("Array has more than one element.")\n }\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n *\npublic fun LongArray.single(): Long
{\n return when (size) {\n 0 -> throw NoSuchElementException("Array is empty.")\n 1 -> this[0]\n
else -> throw IllegalArgumentException("Array has more than one element.")\n }\n}\n\n/**\n * Returns the
single element, or throws an exception if the array is empty or has more than one element.\n *\npublic fun
FloatArray.single(): Float {\n return when (size) {\n 0 -> throw NoSuchElementException("Array is
empty.")\n 1 -> this[0]\n else -> throw IllegalArgumentException("Array has more than one element.")\n
}\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one
element.\n *\npublic fun DoubleArray.single(): Double {\n return when (size) {\n 0 -> throw
NoSuchElementException("Array is empty.")\n 1 -> this[0]\n else -> throw
IllegalArgumentException("Array has more than one element.")\n }\n}\n\n/**\n * Returns the single element, or
throws an exception if the array is empty or has more than one element.\n *\npublic fun BooleanArray.single():
Boolean {\n return when (size) {\n 0 -> throw NoSuchElementException("Array is empty.")\n 1 ->
this[0]\n else -> throw IllegalArgumentException("Array has more than one element.")\n }\n}\n\n/**\n *
Returns the single element, or throws an exception if the array is empty or has more than one element.\n *\npublic
fun CharArray.single(): Char {\n return when (size) {\n 0 -> throw NoSuchElementException("Array is
empty.")\n 1 -> this[0]\n else -> throw IllegalArgumentException("Array has more than one element.")\n
}\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or
more than one matching element.\n *\npublic inline fun <T> Array<out 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("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 T\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 ByteArray.single(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) throw
IllegalArgumentException("Array contains more than one matching element.")\n single = element\n

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found = true\n }\n }\n if (!found) throw NoSuchElementException("Array contains no element matching
the predicate.")\n @Suppress("UNCHECKED_CAST")\n return single as Byte\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 ShortArray.single(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) 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 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 }\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 }\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<out T>.singleOrNull(): T? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or
`null` if the array is empty or has more than one element.\n */\npublic fun ByteArray.singleOrNull(): Byte? {\n
return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more

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than one element.\n *^/npublic fun ShortArray.singleOrNull(): Short? {\n return if (size == 1) this[0] else
null\n}\n/n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n *^/npublic
fun IntArray.singleOrNull(): Int? {\n return if (size == 1) this[0] else null\n}\n/n/**\n * Returns single element, or
`null` if the array is empty or has more than one element.\n *^/npublic fun LongArray.singleOrNull(): Long? {\n
return if (size == 1) this[0] else null\n}\n/n/**\n * Returns single element, or `null` if the array is empty or has more
than one element.\n *^/npublic fun FloatArray.singleOrNull(): Float? {\n return if (size == 1) this[0] else
null\n}\n/n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n *^/npublic
fun DoubleArray.singleOrNull(): Double? {\n return if (size == 1) this[0] else null\n}\n/n/**\n * Returns single
element, or `null` if the array is empty or has more than one element.\n *^/npublic fun BooleanArray.singleOrNull():
Boolean? {\n return if (size == 1) this[0] else null\n}\n/n/**\n * Returns single element, or `null` if the array is
empty or has more than one element.\n *^/npublic fun CharArray.singleOrNull(): Char? {\n return if (size == 1)
this[0] else null\n}\n/n/**\n * Returns the single element matching the given [predicate], or `null` if element was not
found or more than one element was found.\n *^/npublic inline fun <T> Array<out T>.singleOrNull(predicate: (T) -
> Boolean): T? {\n var single: T? = null\n var found = false\n for (element in this) {\n if
(predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n/n/**\n * Returns the single element matching the given [predicate], or
`null` if element was not found or more than one element was found.\n *^/npublic inline fun
ByteArray.singleOrNull(predicate: (Byte) -> Boolean): Byte? {\n var single: Byte? = null\n var found = false\n
for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n
found = true\n }\n }\n if (!found) return null\n return single\n}\n/n/**\n * Returns the single element
matching the given [predicate], or `null` if element was not found or more than one element was found.\n *^/npublic
inline fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {\n var single: Short? = null\n var
found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single
= element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n/n/**\n * Returns the
single element matching the given [predicate], or `null` if element was not found or 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

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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) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun ByteArray.drop(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun ShortArray.drop(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun IntArray.drop(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic fun LongArray.drop(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size -
n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws
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

```

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require(n >= 0) { "Requested element count $n is less than zero." }
return take((size -
n).coerceAtLeast(0))
}
Returns a list containing all elements except last [n] elements.
@throws
IllegalArgumentException if [n] is negative.
@sample
samples.collections.Collections.Transformations.drop
public fun IntArray.dropLast(n: Int): List<Int> {
require(n >= 0) { "Requested element count $n is less than zero." }
return take((size -
n).coerceAtLeast(0))
}
Returns a list containing all elements except last [n] elements.
@throws
IllegalArgumentException if [n] is negative.
@sample
samples.collections.Collections.Transformations.drop
public fun LongArray.dropLast(n: Int): List<Long> {
require(n >= 0) { "Requested element count $n is less than zero." }
return take((size -
n).coerceAtLeast(0))
}
Returns a list containing all elements except last [n] elements.
@throws
IllegalArgumentException if [n] is negative.
@sample
samples.collections.Collections.Transformations.drop
public fun FloatArray.dropLast(n: Int): List<Float> {
require(n >= 0) { "Requested element count $n is less than zero." }
return take((size -
n).coerceAtLeast(0))
}
Returns a list containing all elements except last [n] elements.
@throws
IllegalArgumentException if [n] is negative.
@sample
samples.collections.Collections.Transformations.drop
public fun DoubleArray.dropLast(n: Int): List<Double> {
require(n >= 0) { "Requested element count $n is less than zero." }
return take((size -
n).coerceAtLeast(0))
}
Returns a list containing all elements except last [n] elements.
@throws
IllegalArgumentException if [n] is negative.
@sample
samples.collections.Collections.Transformations.drop
public fun BooleanArray.dropLast(n: Int):
List<Boolean> {
require(n >= 0) { "Requested element count $n is less than zero." }
return take((size -
n).coerceAtLeast(0))
}
Returns a list containing all elements except last [n] elements.
@throws
IllegalArgumentException if [n] is negative.
@sample
samples.collections.Collections.Transformations.drop
public fun CharArray.dropLast(n: Int): List<Char> {
require(n >= 0) { "Requested element count $n is less than zero." }
return take((size -
n).coerceAtLeast(0))
}
Returns a list containing all elements except last elements that satisfy the given
[predicate].
@sample
samples.collections.Collections.Transformations.drop
public inline fun <T>
Array<out T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {
for (index in lastIndex downTo 0) {
if (!predicate(this[index])) {
return take(index + 1)
}
}
return emptyList()
}
Returns
a list containing all elements except last elements that satisfy the given [predicate].
@sample
samples.collections.Collections.Transformations.drop
public inline fun ByteArray.dropLastWhile(predicate:
(Byte) -> Boolean): List<Byte> {
for (index in lastIndex downTo 0) {
if (!predicate(this[index])) {
return take(index + 1)
}
}
return emptyList()
}
Returns a list containing all elements
except last elements that satisfy the given [predicate].
@sample
samples.collections.Collections.Transformations.drop
public inline fun ShortArray.dropLastWhile(predicate:
(Short) -> Boolean): List<Short> {
for (index in lastIndex downTo 0) {
if (!predicate(this[index])) {
return take(index + 1)
}
}
return emptyList()
}
Returns a list containing all elements
except last elements that satisfy the given [predicate].
@sample
samples.collections.Collections.Transformations.drop
public inline fun IntArray.dropLastWhile(predicate:
(Int) -> Boolean): List<Int> {
for (index in lastIndex downTo 0) {
if (!predicate(this[index])) {
return take(index + 1)
}
}
return emptyList()
}
Returns a list containing all elements
except last elements that satisfy the given [predicate].
@sample
samples.collections.Collections.Transformations.drop
public inline fun LongArray.dropLastWhile(predicate:
(Long) -> Boolean): List<Long> {
for (index in lastIndex downTo 0) {
if (!predicate(this[index])) {
return take(index + 1)
}
}
return emptyList()
}
Returns a list containing all elements
except last elements that satisfy the given [predicate].
@sample
samples.collections.Collections.Transformations.drop
public inline fun FloatArray.dropLastWhile(predicate:
(Float) -> Boolean): List<Float> {
for (index in lastIndex downTo 0) {
if (!predicate(this[index])) {

```

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return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun DoubleArray.dropLastWhile(predicate:
(Double) -> Boolean): List<Double> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n
return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements
except last elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun
BooleanArray.dropLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n for (index in lastIndex
downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return
emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given
[predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic inline fun
CharArray.dropLastWhile(predicate: (Char) -> Boolean): List<Char> {\n for (index in lastIndex downTo 0) {\n
if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n *
Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n *\npublic inline fun <T> Array<out
T>.dropWhile(predicate: (T) -> Boolean): List<T> {\n var yielding = false\n val list = ArrayList<T>()\n for
(item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n
yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that
satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n *\npublic
inline fun ByteArray.dropWhile(predicate: (Byte) -> Boolean): List<Byte> {\n var yielding = false\n val list =
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

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(!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list
containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample
samples.collections.Collections.Transformations.drop\n */\npublic inline fun CharArray.dropWhile(predicate:
(Char) -> Boolean): List<Char> {\n var yielding = false\n val list = ArrayList<Char>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding =
true\n }\n return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun <T> Array<out
T>.filter(predicate: (T) -> Boolean): List<T> {\n return filterTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns
a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun ByteArray.filter(predicate: (Byte) -> Boolean):
List<Byte> {\n return filterTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements
matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline
fun ShortArray.filter(predicate: (Short) -> Boolean): List<Short> {\n return filterTo(ArrayList<Short>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun IntArray.filter(predicate: (Int) -> Boolean):
List<Int> {\n return filterTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing only elements
matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline
fun LongArray.filter(predicate: (Long) -> Boolean): List<Long> {\n return filterTo(ArrayList<Long>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun FloatArray.filter(predicate: (Float) ->
Boolean): List<Float> {\n return filterTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing
only elements matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*/\npublic inline fun DoubleArray.filter(predicate: (Double) -> Boolean): List<Double> {\n return
filterTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given
[predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun
BooleanArray.filter(predicate: (Boolean) -> Boolean): List<Boolean> {\n return filterTo(ArrayList<Boolean>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun CharArray.filter(predicate: (Char) ->
Boolean): List<Char> {\n return filterTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing
only elements matching the given [predicate].\n * \n * @param [predicate] function that takes the index of an element
and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun <T> Array<out
T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n return filterIndexedTo(ArrayList<T>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic
inline fun ByteArray.filterIndexed(predicate: (index: Int, Byte) -> Boolean): List<Byte> {\n return
filterIndexedTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * \n * @param [predicate] function that takes the index of an element and the element itself\n *
and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun ShortArray.filterIndexed(predicate:
(index: Int, Short) -> Boolean): List<Short> {\n return filterIndexedTo(ArrayList<Short>(), predicate)\n}\n\n/**\n
* Returns a list containing only elements matching the given [predicate].\n * \n * @param [predicate] function that
takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n
* \n * @sample samples.collections.Collections.Filtering.filterIndexed\n */\npublic inline fun
IntArray.filterIndexed(predicate: (index: Int, Int) -> Boolean): List<Int> {\n return
filterIndexedTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the
given [predicate].\n * \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.

```

samples.collections.Collections.Filtering.filterIndexed
public inline fun LongArray.filterIndexed(predicate:
(index: Int, Long) -> Boolean): List<Long> {
return filterIndexedTo(ArrayList<Long>(), predicate)
}
Returns a list containing only elements matching the given [predicate].
@param [predicate] function that takes the index of an element and the element itself
and returns the result of predicate evaluation on the element.
sample samples.collections.Collections.Filtering.filterIndexed
public inline fun
FloatArray.filterIndexed(predicate: (index: Int, Float) -> Boolean): List<Float> {
return
filterIndexedTo(ArrayList<Float>(), predicate)
}
Returns a list containing only elements matching the
given [predicate].
@param [predicate] function that takes the index of an element and the element itself
and returns the result of predicate evaluation on the element.
sample
samples.collections.Collections.Filtering.filterIndexed
public inline fun DoubleArray.filterIndexed(predicate:
(index: Int, Double) -> Boolean): List<Double> {
return filterIndexedTo(ArrayList<Double>(),
predicate)
}
Returns a list containing only elements matching the given [predicate].
@param
[predicate] function that takes the index of an element and the element itself
and returns the result of predicate
evaluation on the element.
sample samples.collections.Collections.Filtering.filterIndexed
public
inline fun BooleanArray.filterIndexed(predicate: (index: Int, Boolean) -> Boolean): List<Boolean> {
return
filterIndexedTo(ArrayList<Boolean>(), predicate)
}
Returns a list containing only elements matching
the given [predicate].
@param [predicate] function that takes the index of an element and the element itself
and returns the result of predicate evaluation on the element.
sample
samples.collections.Collections.Filtering.filterIndexed
public inline fun CharArray.filterIndexed(predicate:
(index: Int, Char) -> Boolean): List<Char> {
return filterIndexedTo(ArrayList<Char>(), predicate)
}
Appends all elements matching the given [predicate] to the given [destination].
@param [predicate] function that
takes the index of an element and the element itself
and returns the result of predicate evaluation on the
element.
sample samples.collections.Collections.Filtering.filterIndexedTo
public inline fun <T, C :
MutableCollection<in T>> Array<out T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C
{
forEachIndexed { index, element ->
if (predicate(index, element)) destination.add(element)
}
return destination
}
Appends all elements matching the given [predicate] to the given [destination].
@param [predicate] function that takes the index of an element and the element itself
and returns the result of
predicate evaluation on the element.
sample samples.collections.Collections.Filtering.filterIndexedTo
public inline fun <C : MutableCollection<in Byte>> ByteArray.filterIndexedTo(destination: C, predicate:
(index: Int, Byte) -> Boolean): C {
forEachIndexed { index, element ->
if (predicate(index, element))
destination.add(element)
}
return destination
}
Appends all elements matching the given
[predicate] to the given [destination].
@param [predicate] function that takes the index of an element and the
element itself
and returns the result of predicate evaluation on the element.
sample
samples.collections.Collections.Filtering.filterIndexedTo
public inline fun <C : MutableCollection<in Short>>
ShortArray.filterIndexedTo(destination: C, predicate: (index: Int, Short) -> Boolean): C {
forEachIndexed {
index, element ->
if (predicate(index, element)) destination.add(element)
}
return
destination
}
Appends all elements matching the given [predicate] to the given [destination].
@param [predicate] function that takes the index of an element and the element itself
and returns the result of
predicate evaluation on the element.
sample samples.collections.Collections.Filtering.filterIndexedTo
public inline fun <C : MutableCollection<in Int>> IntArray.filterIndexedTo(destination: C, predicate: (index:
Int, Int) -> Boolean): C {
forEachIndexed { index, element ->
if (predicate(index, element))
destination.add(element)
}
return destination
}
Appends all elements matching the given
[predicate] to the given [destination].
@param [predicate] function that takes the index of an element and the
element itself
and returns the result of predicate evaluation on the element.
sample
samples.collections.Collections.Filtering.filterIndexedTo
public inline fun <C : MutableCollection<in Long>>
LongArray.filterIndexedTo(destination: C, predicate: (index: Int, Long) -> Boolean): C {
forEachIndexed {
index, element ->
if (predicate(index, element)) destination.add(element)
}
return
}

```

```

destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n
*/\npublic inline fun <C : MutableCollection<in Float>> FloatArray.filterIndexedTo(destination: C, predicate:
(index: Int, Float) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element))
destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in
Double>> DoubleArray.filterIndexedTo(destination: C, predicate: (index: Int, Double) -> Boolean): C {\n
forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return
destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of
predicate evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexedTo\n
*/\npublic inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterIndexedTo(destination: C, predicate:
(index: Int, Boolean) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element))
destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <C : MutableCollection<in Char>>
CharArray.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {\n forEachIndexed {
index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return
destination\n}\n\n/**\n * Returns a list containing all elements that are instances of specified type parameter R.\n *
\n * @sample samples.collections.Collections.Filtering.filterIsInstance\n */\npublic inline fun <reified R>
Array<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {\n return
filterIsInstanceTo(ArrayList<R>())\n}\n\n/**\n * Appends all elements that are instances of specified type
parameter R to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterIsInstanceTo\n */\npublic inline fun <reified R, C :
MutableCollection<in R>> Array<*>.filterIsInstanceTo(destination: C): C {\n for (element in this) if (element is
R) destination.add(element)\n return destination\n}\n\n/**\n * Returns a list containing all elements not matching
the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun <T>
Array<out T>.filterNot(predicate: (T) -> Boolean): List<T> {\n return filterNotTo(ArrayList<T>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun ByteArray.filterNot(predicate: (Byte) ->
Boolean): List<Byte> {\n return filterNotTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing
all elements not matching the given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n
*/\npublic inline fun ShortArray.filterNot(predicate: (Short) -> Boolean): List<Short> {\n return
filterNotTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the
given [predicate].\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic inline fun
IntArray.filterNot(predicate: (Int) -> Boolean): List<Int> {\n return filterNotTo(ArrayList<Int>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun LongArray.filterNot(predicate: (Long) ->
Boolean): List<Long> {\n return filterNotTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list
containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun FloatArray.filterNot(predicate: (Float) ->
Boolean): List<Float> {\n return filterNotTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list
containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun DoubleArray.filterNot(predicate: (Double) ->

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Boolean): List<Double> {\n return filterNotTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list
containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun BooleanArray.filterNot(predicate: (Boolean) -
-> Boolean): List<Boolean> {\n return filterNotTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list
containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n */\npublic inline fun CharArray.filterNot(predicate: (Char) ->
Boolean): List<Char> {\n return filterNotTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing
all elements that are not `null`.\n * \n * @sample samples.collections.Collections.Filtering.filterNotNull\n */\npublic
fun <T : Any> Array<out T?>.filterNotNull(): List<T> {\n return filterNotNullTo(ArrayList<T>())\n}\n\n/**\n *
Appends all elements that are not `null` to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterNotNullTo\n */\npublic fun <C : MutableCollection<in T>, T : Any>
Array<out T?>.filterNotNullTo(destination: C): C {\n for (element in this) if (element != null)
destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given
[predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n */\npublic
inline fun <T, C : MutableCollection<in T>> Array<out T>.filterNotTo(destination: C, predicate: (T) ->
Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return
destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in
Byte>> ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Short>>
ShortArray.filterNotTo(destination: C, predicate: (Short) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Int>>
IntArray.filterNotTo(destination: C, predicate: (Int) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Long>>
LongArray.filterNotTo(destination: C, predicate: (Long) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Float>>
FloatArray.filterNotTo(destination: C, predicate: (Float) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Double>>
DoubleArray.filterNotTo(destination: C, predicate: (Double) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Boolean>>
BooleanArray.filterNotTo(destination: C, predicate: (Boolean) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <C : MutableCollection<in Char>>
CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n for (element in this) if
(!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching

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the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterTo(destination: C, predicate: (T) ->
Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return
destination}\n}\n/>\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in
Byte>> ByteArray.filterTo(destination: C, predicate: (Byte) -> Boolean): C {\n for (element in this) if
(predicate(element)) destination.add(element)\n return destination}\n}\n/>\n * Appends all elements matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*\npublic inline fun <C : MutableCollection<in Short>> 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 * Appends all elements matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in 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 * Appends all elements matching the given [predicate] to
the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun
<C : MutableCollection<in 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 * Appends all
elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in 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 * Appends all elements matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*\npublic inline fun <C : MutableCollection<in 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 * Appends all elements matching the given [predicate] to the given [destination].\n * \n *
@sample samples.collections.Collections.Filtering.filterTo\n *\npublic inline fun <C : MutableCollection<in
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 * Appends all elements matching
the given [predicate] to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*\npublic inline fun <C : MutableCollection<in 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 * 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 * 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 * 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 * 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 * 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 * 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 * Returns a list containing elements at indices in the specified [indices] range.\n *\npublic
fun DoubleArray.slice(indices: IntRange): List<Double> {\n if (indices.isEmpty()) return listOf()\n return

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copyOfRange(indices.start, indices.endInclusive + 1).asList()\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
targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return

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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
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=

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size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Short>(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 IntArray.take(n: Int): List<Int> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Int>(n)\n for
(item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun LongArray.take(n: Int): List<Long> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Long>(n)\n for
(item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun FloatArray.take(n: Int): List<Float> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Float>(n)\n for
(item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns
a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun DoubleArray.take(n: Int): List<Double> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >=
size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Double>(n)\n
for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n *
Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n *\npublic fun BooleanArray.take(n: Int):
List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return
emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list =
ArrayList<Boolean>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n
return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if
[n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n *\npublic fun
CharArray.take(n: Int): List<Char> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n
if (n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n
val list = ArrayList<Char>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n
}\n return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws
IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun <T> Array<out T>.takeLast(n: Int): List<T>
{\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val
size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list =
ArrayList<T>(n)\n for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n *
Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n *
@sample samples.collections.Collections.Transformations.take\n *\npublic fun ByteArray.takeLast(n: Int): List<Byte> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size =
size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Byte>(n)\n
for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last
[n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample
samples.collections.Collections.Transformations.take\n *\npublic fun ShortArray.takeLast(n: Int): List<Short> {\n
require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val size =
size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list = ArrayList<Short>(n)\n
for (index in size - n until size)\n list.add(this[index])\n return list\n}\n\n/**\n * Returns a list containing last

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[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 }\n return toList()\n}\n\n/**\n * Returns

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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

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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():\nUnit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in\n0..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():\nUnit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in\n0..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():\nUnit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in\n0..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():\nUnit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in\n0..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():\nUnit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in\n0..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\nDoubleArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex =\nlastIndex\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\nreverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] =\nthis[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the\narray in-place.\n */\npublic fun CharArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0)\nreturn\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index]\n= this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of\nthe array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * \n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if\n[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * \n * @throws\nIllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun <T>\nArray<T>.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex,\nsize)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var reverseIndex =\ntoIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n this[index] =\nthis[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of the\narray in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * \n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if\n[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * \n * @throws\nIllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun\nByteArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex,\nsize)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var reverseIndex =\ntoIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n this[index] =\nthis[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of the\narray in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * \n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if\n[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * \n * @throws\nIllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun\nShortArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex,\nsize)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var reverseIndex =

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toIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n this[index] =
this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of the
array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n *
@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun
IntArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex,
size)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var reverseIndex =
toIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n this[index] =
this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of the
array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n *
@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun
LongArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex,
size)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var reverseIndex =
toIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n this[index] =
this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of the
array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n *
@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun
FloatArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex,
size)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var reverseIndex =
toIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n this[index] =
this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of the
array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n *
@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun
DoubleArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex,
size)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var reverseIndex =
toIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n this[index] =
this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements of the
array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n *
@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun
BooleanArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var
reverseIndex = toIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n
this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses
elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n *
@param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n\n@SinceKotlin("1.4")\npublic fun
CharArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n AbstractList.checkRangeIndexes(fromIndex,
toIndex, size)\n val midPoint = (fromIndex + toIndex) / 2\n if (fromIndex == midPoint) return\n var

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reverseIndex = toIndex - 1\n for (index in fromIndex until midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun <T> Array<out T>.reversed(): List<T> {\n if (isEmpty())\n 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())\n 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())\n 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())\n 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())\n 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())\n 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())\n 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())\n 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())\n 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())\n 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 {\n if (isEmpty())\n return this\n val result = ByteArray(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 ShortArray.reversedArray(): ShortArray {\n if (isEmpty())\n return this\n val result = ShortArray(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 IntArray.reversedArray(): IntArray {\n if (isEmpty())\n return this\n val result = IntArray(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 LongArray.reversedArray(): LongArray {\n if (isEmpty())\n return this\n val result = LongArray(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 FloatArray.reversedArray(): FloatArray {\n if (isEmpty())\n return this\n val result = FloatArray(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 DoubleArray.reversedArray(): DoubleArray {\n if (isEmpty())\n return this\n val result = DoubleArray(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 BooleanArray.reversedArray(): BooleanArray {\n if (isEmpty())\n return this\n val result = BooleanArray(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 CharArray.reversedArray(): CharArray {\n if (isEmpty())\n return this\n val result = CharArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun <T> Array<T>.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun ByteArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n */\n@SinceKotlin("1.4")\npublic fun ShortArray.shuffle(): Unit {\n
```

```

shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
*\n@SinceKotlin("1.4")\npublic fun IntArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly
shuffles elements in this array in-place.\n
*\n@SinceKotlin("1.4")\npublic fun LongArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
*\n@SinceKotlin("1.4")\npublic fun FloatArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly
shuffles elements in this array in-place.\n
*\n@SinceKotlin("1.4")\npublic fun DoubleArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
*\n@SinceKotlin("1.4")\npublic fun BooleanArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly
shuffles elements in this array in-place.\n
*\n@SinceKotlin("1.4")\npublic fun CharArray.shuffle(): Unit {\n
shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random]
instance as the source of randomness.\n
*\n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n
*\n@SinceKotlin("1.4")\npublic fun <T> Array<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 * Randomly shuffles elements in this array in-place using the specified [random] instance as the
source of randomness.\n
*\n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n
*\n@SinceKotlin("1.4")\npublic fun ByteArray.shuffle(random: Random): Unit {\n for (i in lastIndex
downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n
 }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the
source of randomness.\n
*\n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n
*\n@SinceKotlin("1.4")\npublic fun ShortArray.shuffle(random: Random): Unit {\n for (i in lastIndex
downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n
 }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the
source of randomness.\n
*\n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n
*\n@SinceKotlin("1.4")\npublic fun IntArray.shuffle(random: Random): Unit {\n for (i in lastIndex
downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n
 }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the
source of randomness.\n
*\n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n
*\n@SinceKotlin("1.4")\npublic fun LongArray.shuffle(random: Random): Unit {\n for (i in lastIndex
downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n
 }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the
source of randomness.\n
*\n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n
*\n@SinceKotlin("1.4")\npublic fun FloatArray.shuffle(random: Random): Unit {\n for (i in lastIndex
downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n
 }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the
source of randomness.\n
*\n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n
*\n@SinceKotlin("1.4")\npublic fun DoubleArray.shuffle(random: Random): Unit {\n for (i in lastIndex
downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] = this[j]\n this[j] = copy\n
 }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random] instance as the
source of randomness.\n
*\n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n
*\n@SinceKotlin("1.4")\npublic fun BooleanArray.shuffle(random: Random): Unit {\n for (i in lastIndex

```



```

(isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun ShortArray.sortedArray(): ShortArray {\n if
(isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun IntArray.sortedArray(): IntArray {\n if
(isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun LongArray.sortedArray(): LongArray {\n if
(isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun FloatArray.sortedArray(): FloatArray {\n if
(isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted according to their natural sort order.\n */\npublic fun DoubleArray.sortedArray(): DoubleArray {\n if
(isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements
of this array sorted according to their natural sort order.\n */\npublic fun CharArray.sortedArray(): CharArray {\n if
(isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted descending according to their natural sort order.\n */\n * The sort is _stable_. It means that equal
elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>>
Array<T>.sortedArrayDescending(): Array<T> {\n if (isEmpty()) return this\n return this.copyOf().apply {
sortWith(reverseOrder()) }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending
according to their natural sort order.\n */\npublic fun ByteArray.sortedArrayDescending(): ByteArray {\n if
(isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all
elements of this array sorted descending according to their natural sort order.\n */\npublic fun
ShortArray.sortedArrayDescending(): ShortArray {\n if (isEmpty()) return this\n return this.copyOf().apply {
sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to
their natural sort order.\n */\npublic fun IntArray.sortedArrayDescending(): IntArray {\n if (isEmpty()) return
this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this
array sorted descending according to their natural sort order.\n */\npublic fun LongArray.sortedArrayDescending():
LongArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns
an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun
FloatArray.sortedArrayDescending(): FloatArray {\n if (isEmpty()) return this\n return this.copyOf().apply {
sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to
their natural sort order.\n */\npublic fun DoubleArray.sortedArrayDescending(): DoubleArray {\n if (isEmpty())
return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted descending according to their natural sort order.\n */\npublic fun
CharArray.sortedArrayDescending(): CharArray {\n if (isEmpty()) return this\n return this.copyOf().apply {
sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according the specified
[comparator].\n */\n * The sort is _stable_. It means that equal elements preserve their order relative to each other
after sorting.\n */\npublic fun <T> Array<out T>.sortedArrayWith(comparator: Comparator<in T>): Array<out T>
{\n if (isEmpty()) return this\n return this.copyOf().apply { sortWith(comparator) }\n}\n\n/**\n * Returns a list
of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n *
@sample samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <T, R : Comparable<R>>
Array<out T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\n return
sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order
of the value returned by specified [selector] function.\n */\n * The sort is _stable_. It means that equal elements
preserve their order relative to each other after sorting.\n */\n * @sample
samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>>
ByteArray.sortedBy(crossinline selector: (Byte) -> R?): List<Byte> {\n return
sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order
of the value returned by specified [selector] function.\n */\n * The sort is _stable_. It means that equal elements
preserve their order relative to each other after sorting.\n */\n * @sample
samples.collections.Collections.Sorting.sortedBy\n */\npublic inline fun <R : Comparable<R>>

```

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

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

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

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

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

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

CharArray.sortedBy(crossinline selector: (Char) -> R?): List<Char> {\n return  
sortedWith(compareBy(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending according to natural  
sort order of the value returned by specified [selector] function.\n \* \n \* The sort is `_stable_`. It means that equal  
elements preserve their order relative to each other after sorting.\n \*/\npublic inline fun <T, R : Comparable<R>>

Array<out T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n return  
sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending  
according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R :  
Comparable<R>> ByteArray.sortedByDescending(crossinline selector: (Byte) -> R?): List<Byte> {\n return  
sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending  
according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R :  
Comparable<R>> ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> {\n return  
sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending  
according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R :  
Comparable<R>> IntArray.sortedByDescending(crossinline selector: (Int) -> R?): List<Int> {\n return  
sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending  
according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R :  
Comparable<R>> LongArray.sortedByDescending(crossinline selector: (Long) -> R?): List<Long> {\n return  
sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending  
according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R :  
Comparable<R>> FloatArray.sortedByDescending(crossinline selector: (Float) -> R?): List<Float> {\n return  
sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending  
according to natural sort order of the value returned by specified [selector] function.\n \*/\npublic inline fun <R :  
Comparable<R>> DoubleArray.sortedByDescending(crossinline selector: (Double) -> R?): List<Double> {\n  
return sortedWith(compareByDescending(selector))\n}\n\n/\*\*\n \* Returns a list of all elements sorted descending

according to natural sort order of the value returned by specified [selector] function.

```

public inline fun <R : Comparable<R>> BooleanArray.sortedByDescending(crossinline selector: (Boolean) -> R?): List<Boolean> {
 return sortedWith(compareByDescending(selector))
}

public inline fun <R : Comparable<R>> CharArray.sortedByDescending(crossinline selector: (Char) -> R?): List<Char> {
 return sortedWith(compareByDescending(selector))
}

public fun <T : Comparable<T>> Array<out T>.sortedDescending(): List<T> {
 return sortedWith(reverseOrder())
}

public fun ByteArray.sortedDescending(): List<Byte> {
 return copyOf().apply { sort() }.reversed()
}

public fun ShortArray.sortedDescending(): List<Short> {
 return copyOf().apply { sort() }.reversed()
}

public fun IntArray.sortedDescending(): List<Int> {
 return copyOf().apply { sort() }.reversed()
}

public fun LongArray.sortedDescending(): List<Long> {
 return copyOf().apply { sort() }.reversed()
}

public fun FloatArray.sortedDescending(): List<Float> {
 return copyOf().apply { sort() }.reversed()
}

public fun DoubleArray.sortedDescending(): List<Double> {
 return copyOf().apply { sort() }.reversed()
}

public fun CharArray.sortedDescending(): List<Char> {
 return copyOf().apply { sort() }.reversed()
}

public fun <T> Array<out T>.sortedWith(comparator: Comparator<in T>): List<T> {
 return sortedArrayWith(comparator).asList()
}

public fun ByteArray.sortedWith(comparator: Comparator<in Byte>): List<Byte> {
 return toTypedArray().apply { sortWith(comparator) }.asList()
}

public fun ShortArray.sortedWith(comparator: Comparator<in Short>): List<Short> {
 return toTypedArray().apply { sortWith(comparator) }.asList()
}

public fun IntArray.sortedWith(comparator: Comparator<in Int>): List<Int> {
 return toTypedArray().apply { sortWith(comparator) }.asList()
}

public fun LongArray.sortedWith(comparator: Comparator<in Long>): List<Long> {
 return toTypedArray().apply { sortWith(comparator) }.asList()
}

public fun FloatArray.sortedWith(comparator: Comparator<in Float>): List<Float> {
 return toTypedArray().apply { sortWith(comparator) }.asList()
}

public fun DoubleArray.sortedWith(comparator: Comparator<in Double>): List<Double> {
 return toTypedArray().apply { sortWith(comparator) }.asList()
}

public fun BooleanArray.sortedWith(comparator: Comparator<in Boolean>): List<Boolean> {
 return toTypedArray().apply { sortWith(comparator) }.asList()
}

public fun CharArray.sortedWith(comparator: Comparator<in Char>): List<Char> {
 return toTypedArray().apply { sortWith(comparator) }.asList()
}

public expect fun <T> Array<out T>.asList(): List<T> {
 return [List] that wraps the original array
}

public expect fun ByteArray.asList(): List<Byte> {
 return [List] that wraps the original array
}

public expect fun ShortArray.asList(): List<Short> {
 return [List] that wraps the original array
}

public expect fun IntArray.asList(): List<Int> {
 return [List] that wraps the original array
}

```

LongArray.asList(): List<Long>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \* \n\npublic expect fun  
 FloatArray.asList(): List<Float>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \* \n\npublic expect fun  
 DoubleArray.asList(): List<Double>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \* \n\npublic expect  
 fun BooleanArray.asList(): List<Boolean>\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \* \n\npublic  
 expect fun CharArray.asList(): List<Char>\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*deeply\* equal  
 to one another.\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* If two  
 corresponding elements are nested arrays, they are also compared deeply.\n \* If any of arrays contains itself on any  
 nesting level the behavior is undefined.\n \* \n \* The elements of other types are compared for equality with the  
 [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not  
 equal to `0.0`.\n \* \n\n@SinceKotlin("1.1")\n\n@kotlin.internal.LowPriorityInOverloadResolution\n\npublic expect  
 infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean\n\n/\*\*\n \* Returns `true` if the two  
 specified arrays are \*deeply\* equal to one another.\n \* i.e. contain the same number of the same elements in the  
 same order.\n \* \n \* The specified arrays are also considered deeply equal if both are `null`.\n \* \n \* If two  
 corresponding elements are nested arrays, they are also compared deeply.\n \* If any of arrays contains itself on any  
 nesting level the behavior is undefined.\n \* \n \* The elements of other types are compared for equality with the  
 [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not  
 equal to `0.0`.\n \* \n\n@SinceKotlin("1.4")\n\npublic expect infix fun <T> Array<out T>?.contentDeepEquals(other:  
 Array<out T>?): Boolean\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* \n \*  
 Nested arrays are treated as lists too.\n \* \n \* If any of arrays contains itself on any nesting level the behavior is  
 undefined.\n \* \n\n@SinceKotlin("1.1")\n\n@kotlin.internal.LowPriorityInOverloadResolution\n\npublic expect fun  
 <T> Array<out T>.contentDeepHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array  
 as if it is [List].\n \* \n \* Nested arrays are treated as lists too.\n \* \n \* If any of arrays contains itself on any nesting level  
 the behavior is undefined.\n \* \n\n@SinceKotlin("1.4")\n\npublic expect fun <T> Array<out  
 T>?.contentDeepHashCode(): Int\n\n/\*\*\n \* Returns a string representation of the contents of this array as if it is a  
 [List].\n \* \n \* Nested arrays are treated as lists too.\n \* \n \* If any of arrays contains itself on any nesting level that  
 reference\n \* is rendered as `"[...]"` to prevent recursion.\n \* \n \* @sample  
 samples.collections.Arrays.ContentOperations.contentDeepToString\n\n  
 \* \n\n@SinceKotlin("1.1")\n\n@kotlin.internal.LowPriorityInOverloadResolution\n\npublic expect fun <T> Array<out  
 T>.contentDeepToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of this array as if it is a  
 [List].\n \* \n \* Nested arrays are treated as lists too.\n \* \n \* If any of arrays contains itself on any nesting level that  
 reference\n \* is rendered as `"[...]"` to prevent recursion.\n \* \n \* @sample  
 samples.collections.Arrays.ContentOperations.contentDeepToString\n \* \n\n@SinceKotlin("1.4")\n\npublic expect fun  
 <T> Array<out T>?.contentDeepToString(): String\n\n/\*\*\n \* Returns `true` if the two specified arrays are  
 \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \*  
 \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it  
 means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \* \n\n@Deprecated("Use Kotlin compiler 1.4 to  
 avoid deprecation warning.")\n\n@SinceKotlin("1.1")\n\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\n\npublic  
 expect infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean\n\n/\*\*\n \* Returns `true` if the  
 two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements  
 in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For  
 floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \* \n\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation  
 warning.")\n\n@SinceKotlin("1.1")\n\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\n\npublic expect infix fun  
 ByteArray.contentEquals(other: ByteArray): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are  
 \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \*  
 \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it  
 means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \* \n\n@Deprecated("Use Kotlin compiler 1.4 to  
 avoid deprecation warning.")\n\n@SinceKotlin("1.1")\n\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\n\npublic

expect infix fun ShortArray.contentEquals(other: ShortArray): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun IntArray.contentEquals(other: IntArray): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun LongArray.contentEquals(other: LongArray): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun FloatArray.contentEquals(other: FloatArray): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*/\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic expect infix fun CharArray.contentEquals(other: CharArray): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*/\n@SinceKotlin("1.4")\npublic expect infix fun <T> Array<out T>?.contentEquals(other: Array<out T>?): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n \*/\n@SinceKotlin("1.4")\npublic expect infix fun ShortArray?.contentEquals(other: ShortArray?): Boolean\n\n/\*\*\n \* Returns `true` if the two specified arrays are \*structurally\* equal to one another,\n \* i.e. contain the same number of the same elements in the same order.\n \* \n \* The elements are compared for equality with the [equals][Any.equals] function.\n \* For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not



CharArray.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* \n \* @SinceKotlin("1.4")\n\npublic expect fun <T> Array<out T>?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* \n \* @SinceKotlin("1.4")\n\npublic expect fun ByteArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* \n \* @SinceKotlin("1.4")\n\npublic expect fun ShortArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* \n \* @SinceKotlin("1.4")\n\npublic expect fun IntArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* \n \* @SinceKotlin("1.4")\n\npublic expect fun LongArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* \n \* @SinceKotlin("1.4")\n\npublic expect fun FloatArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* \n \* @SinceKotlin("1.4")\n\npublic expect fun DoubleArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* \n \* @SinceKotlin("1.4")\n\npublic expect fun BooleanArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a hash code based on the contents of this array as if it is [List].\n \* \n \* @SinceKotlin("1.4")\n\npublic expect fun CharArray?.contentHashCode(): Int\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n \* @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n \* \n \* @SinceKotlin("1.1")\n \* \n \* @DeprecatedSinceKotlin(hiddenSince = "1.4")\n\npublic expect fun <T> Array<out T>.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n \* @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n \* \n \* @SinceKotlin("1.1")\n \* \n \* @DeprecatedSinceKotlin(hiddenSince = "1.4")\n\npublic expect fun ByteArray.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n \* @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n \* \n \* @SinceKotlin("1.1")\n \* \n \* @DeprecatedSinceKotlin(hiddenSince = "1.4")\n\npublic expect fun ShortArray.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n \* @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n \* \n \* @SinceKotlin("1.1")\n \* \n \* @DeprecatedSinceKotlin(hiddenSince = "1.4")\n\npublic expect fun IntArray.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n \* @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n \* \n \* @SinceKotlin("1.1")\n \* \n \* @DeprecatedSinceKotlin(hiddenSince = "1.4")\n\npublic expect fun LongArray.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n \* @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n \* \n \* @SinceKotlin("1.1")\n \* \n \* @DeprecatedSinceKotlin(hiddenSince = "1.4")\n\npublic expect fun FloatArray.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n \* @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n \* \n \* @SinceKotlin("1.1")\n \* \n \* @DeprecatedSinceKotlin(hiddenSince = "1.4")\n\npublic expect fun DoubleArray.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n \* @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n \* \n \* @SinceKotlin("1.1")\n \* \n \* @DeprecatedSinceKotlin(hiddenSince = "1.4")\n\npublic expect fun BooleanArray.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \* \n \* @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")\n \* \n \* @SinceKotlin("1.1")\n \* \n \* @DeprecatedSinceKotlin(hiddenSince = "1.4")\n\npublic expect fun

warning.\n\n@SinceKotlin("1.1")\n\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\n\npublic expect fun CharArray.contentToString(): String\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\n@SinceKotlin("1.4")\n\npublic expect fun <T> Array<out T>.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*/\n\n@SinceKotlin("1.4")\n\npublic expect fun ByteArray?.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*/\n\n@SinceKotlin("1.4")\n\npublic expect fun ShortArray?.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*/\n\n@SinceKotlin("1.4")\n\npublic expect fun IntArray?.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*/\n\n@SinceKotlin("1.4")\n\npublic expect fun LongArray?.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*/\n\n@SinceKotlin("1.4")\n\npublic expect fun FloatArray?.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*/\n\n@SinceKotlin("1.4")\n\npublic expect fun DoubleArray?.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*/\n\n@SinceKotlin("1.4")\n\npublic expect fun BooleanArray?.contentToString(): String\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*/\n\n@SinceKotlin("1.4")\n\npublic expect fun CharArray?.contentToString(): String\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* 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\n@SinceKotlin("1.3")\n\npublic expect fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T>\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* 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\n@SinceKotlin("1.3")\n\npublic expect fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray\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\npublic expect fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray\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\npublic expect fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray\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\npublic expect fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray\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\npublic expect fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that array.\n \* \n \* It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n \* \n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n \* \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\npublic expect fun

`DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray`

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 BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray`

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 CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray`

Returns new array which is a copy of the original array.

@sample samples.collections.Arrays.CopyOfOperations.copyOfOf

`@Suppress("NO_ACTUAL_FOR_EXPECT")`

`public expect fun <T> Array<T>.copyOf(): Array<T>`

Returns new array which is a copy of the original array.

@sample samples.collections.Arrays.CopyOfOperations.copyOfOf

`public expect fun ByteArray.copyOf(): ByteArray`

Returns new array which is a copy of the original array.

@sample samples.collections.Arrays.CopyOfOperations.copyOfOf

`public expect fun ShortArray.copyOf(): ShortArray`

Returns new array which is a copy of the original array.

@sample samples.collections.Arrays.CopyOfOperations.copyOfOf

`public expect fun IntArray.copyOf(): IntArray`

Returns new array which is a copy of the original array.

@sample samples.collections.Arrays.CopyOfOperations.copyOfOf

`public expect fun LongArray.copyOf(): LongArray`

Returns new array which is a copy of the original array.

@sample samples.collections.Arrays.CopyOfOperations.copyOfOf

`public expect fun FloatArray.copyOf(): FloatArray`

Returns new array which is a copy of the original array.

@sample samples.collections.Arrays.CopyOfOperations.copyOfOf

`public expect fun DoubleArray.copyOf(): DoubleArray`

Returns new array which is a copy of the original array.

@sample samples.collections.Arrays.CopyOfOperations.copyOfOf

`public expect fun BooleanArray.copyOf(): BooleanArray`

Returns new array which is a copy of the original array.

@sample samples.collections.Arrays.CopyOfOperations.copyOfOf

`public expect fun CharArray.copyOf(newSize: Int): CharArray`

Returns new array which is a copy of the original array, resized to the given [newSize].

The copy is either truncated or padded at the end with zero values if necessary.

- If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].

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

@sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf

`public expect fun ByteArray.copyOf(newSize: Int): ByteArray`

Returns new array which is a copy of the original array, resized to the given [newSize].

The copy is either truncated or padded at the end with zero values if necessary.

\* \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) to copy.\n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n@Suppress("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) to copy.\n \* @param toIndex the end of the

range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* \n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* \n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\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) to copy.\n \* \n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* \n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\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) to copy.\n \* \n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* \n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\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) to copy.\n \* \n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* \n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\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) to copy.\n \* \n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* \n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\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) to copy.\n \* \n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* \n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray\n\n/\*\*\n \* Returns a new array which is a copy of the specified range of the original array.\n \* \n \* @param fromIndex the start of the range (inclusive) to copy.\n \* \n \* @param toIndex the end of the range (exclusive) to copy.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* \n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\npublic expect fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* \n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* \n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n@SinceKotlin("1.3")\npublic expect fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Fills this array or its subrange with the specified [element] value.\n \* \n \* @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n \* \n \* @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* \n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \*/\n@SinceKotlin("1.3")\npublic expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size):

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Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the
start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of
this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is
greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\npublic expect fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int =
size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex
the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size
of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n *\n@SinceKotlin("1.3")\npublic expect fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int
= size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n *\n@SinceKotlin("1.3")\npublic expect fun LongArray.fill(element: Long, fromIndex: Int = 0,
toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n *
@param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range
(exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less
than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is
greater than [toIndex].\n *\n@SinceKotlin("1.3")\npublic expect fun FloatArray.fill(element: Float, fromIndex: Int
= 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n *
@param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range
(exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less
than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is
greater than [toIndex].\n *\n@SinceKotlin("1.3")\npublic expect fun DoubleArray.fill(element: Double,
fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element]
value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end
of the range (exclusive) to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if
[fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\n@SinceKotlin("1.3")\npublic expect fun
BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its
subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0
by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n *
@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.3")\npublic expect fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size):
Unit\n\n/**\n * Returns the range of valid indices for the array.\n *\npublic val <T> Array<out T>.indices:
IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n *\npublic
val ByteArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for
the array.\n *\npublic val ShortArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the
range of valid indices for the array.\n *\npublic val IntArray.indices: IntRange\n get() = IntRange(0,
lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n *\npublic val LongArray.indices:
IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n *\npublic
val FloatArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for
the array.\n *\npublic val DoubleArray.indices: IntRange\n get() = IntRange(0, lastIndex)\n\n/**\n * Returns the
range of valid indices for the array.\n *\npublic val BooleanArray.indices: IntRange\n get() = IntRange(0,
lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n *\npublic val CharArray.indices: IntRange\n
 get() = IntRange(0, lastIndex)\n\n/**\n * Returns `true` if the array is empty.\n

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*^@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.isEmpty(): Boolean {\n return size ==
0\n}\n\n/**\n * Returns `true` if the array is empty.\n *^@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n
*^@kotlin.internal.InlineOnly\npublic inline fun ShortArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n
* Returns `true` if the array is empty.\n *^@kotlin.internal.InlineOnly\npublic inline fun IntArray.isEmpty():
Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n
*^@kotlin.internal.InlineOnly\npublic inline fun LongArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n
* Returns `true` if the array is empty.\n *^@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isEmpty():
Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n
*^@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.isEmpty(): Boolean {\n return size ==
0\n}\n\n/**\n * Returns `true` if the array is empty.\n *^@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n
*^@kotlin.internal.InlineOnly\npublic inline fun CharArray.isEmpty(): Boolean {\n return size == 0\n}\n\n/**\n
* Returns `true` if the array is not empty.\n *^@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out
T>.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n
*^@kotlin.internal.InlineOnly\npublic inline fun ByteArray.isNotEmpty(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n *^@kotlin.internal.InlineOnly\npublic inline
fun ShortArray.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not
empty.\n *^@kotlin.internal.InlineOnly\npublic inline fun IntArray.isNotEmpty(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n *^@kotlin.internal.InlineOnly\npublic inline
fun LongArray.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not
empty.\n *^@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isNotEmpty(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n *^@kotlin.internal.InlineOnly\npublic inline
fun DoubleArray.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not
empty.\n *^@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.isNotEmpty(): Boolean {\n return
!isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n *^@kotlin.internal.InlineOnly\npublic inline
fun CharArray.isNotEmpty(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns the last valid index for the
array.\n *^@public val <T> Array<out T>.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index
for the array.\n *^@public val ByteArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index
for the array.\n *^@public val ShortArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index
for the array.\n *^@public val IntArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index
for the array.\n *^@public val LongArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index
for the array.\n *^@public val FloatArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index
for the array.\n *^@public val DoubleArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index
for the array.\n *^@public val BooleanArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index
for the array.\n *^@public val CharArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns an array containing all
elements of the original array and then the given [element].\n
*^@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect operator fun <T> Array<T>.plus(element: T):
Array<T>\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n
*^@public expect operator fun ByteArray.plus(element: Byte): ByteArray\n\n/**\n * Returns an array containing all
elements of the original array and then the given [element].\n *^@public 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 *^@public 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 *^@public 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 *^@public 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
*^@public expect operator fun DoubleArray.plus(element: Double): DoubleArray\n\n/**\n * Returns an array

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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.\n \* \n \* @sample samples.collections.Arrays.Sorting.sortArray\n \*\npublic expect fun  
 CharArray.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 a range in the array in-place.\n \* \n \* The sort is  
`_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \* \n \* @param  
 fromIndex the start of the range (inclusive) to sort, 0 by default.\n \* @param toIndex the end of the range  
 (exclusive) to sort, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is  
 less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if  
 [fromIndex] is greater than [toIndex].\n \* \n \* @sample  
 samples.collections.Arrays.Sorting.sortRangeArrayOfComparable\n \*\n@SinceKotlin("1.4")\npublic expect  
 fun <T : Comparable<T>> Array<out T>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Sorts a range  
 in the array in-place.\n \* \n \* @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n \* @param  
 toIndex the end of the range (exclusive) to sort, size of this array by default.\n \* \n \* @throws  
 IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \*  
 @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \* \n \* @sample  
 samples.collections.Arrays.Sorting.sortRangeOfArray\n \*\n@SinceKotlin("1.4")\npublic expect fun  
 ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Sorts a range in the array in-place.\n \* \n \*  
 @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n \* @param toIndex the end of the range  
 (exclusive) to sort, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is  
 less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if  
 [fromIndex] is greater than [toIndex].\n \* \n \* @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n  
 \*\n@SinceKotlin("1.4")\npublic expect fun ShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n  
 \* Sorts a range in the array in-place.\n \* \n \* @param fromIndex the start of the range (inclusive) to sort, 0 by  
 default.\n \* @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n \* \n \* @throws  
 IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \*  
 @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \* \n \* @sample  
 samples.collections.Arrays.Sorting.sortRangeOfArray\n \*\n@SinceKotlin("1.4")\npublic expect fun  
 IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Sorts a range in the array in-place.\n \* \n \*  
 @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n \* @param toIndex the end of the range  
 (exclusive) to sort, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is  
 less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if  
 [fromIndex] is greater than [toIndex].\n \* \n \* @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n  
 \*\n@SinceKotlin("1.4")\npublic expect fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n  
 \* Sorts a range in the array in-place.\n \* \n \* @param fromIndex the start of the range (inclusive) to sort, 0 by  
 default.\n \* @param toIndex the end of the range (exclusive) to sort, size of this array by default.\n \* \n \* @throws  
 IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \*  
 @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n \* \n \* @sample  
 samples.collections.Arrays.Sorting.sortRangeOfArray\n \*\n@SinceKotlin("1.4")\npublic expect fun  
 FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/\*\*\n \* Sorts a range in the array in-place.\n \* \n \*  
 @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n \* @param toIndex the end of the range  
 (exclusive) to sort, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is  
 less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if  
 [fromIndex] is greater than [toIndex].\n \* \n \* @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n  
 \*\n@SinceKotlin("1.4")\npublic expect fun DoubleArray.sort(fromIndex: Int = 0, toIndex: Int = size):  
 Unit\n\n/\*\*\n \* Sorts a range in the array in-place.\n \* \n \* @param fromIndex the start of the range (inclusive) to



range in-place. The elements are sorted descending according to their natural sort order.

@param fromIndex the start of the range (inclusive) to sort.

@param toIndex the end of the range (exclusive) to sort.

@throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.

@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].

```

*^@SinceKotlin("1.4")
public fun CharArray.sortDescending(fromIndex: Int, toIndex: Int): Unit {
 sort(fromIndex, toIndex)
 reverse(fromIndex, toIndex)
}

```

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 expect fun <T> Array<out T>.sortWith(comparator:
Comparator<in T>): Unit

```

Sorts a range in the array in-place with the given [comparator]. The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.

@param fromIndex the start of the range (inclusive) to sort, 0 by default.

@param toIndex the end of the range (exclusive) to sort, 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].

```

public expect fun <T> Array<out T>.sortWith(comparator:
Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Unit

```

Returns an array of Boolean containing all of the elements of this generic array.

```

public fun Array<out Boolean>.toBooleanArray(): BooleanArray {
 return BooleanArray(size) { index -> this[index] }
}

```

Returns an array of Byte containing all of the elements of this generic array.

```

public fun Array<out Byte>.toByteArray(): ByteArray {
 return ByteArray(size) { index -> this[index] }
}

```

Returns an array of Char containing all of the elements of this generic array.

```

public fun Array<out Char>.toCharArray(): CharArray {
 return CharArray(size) { index ->
this[index] }
}

```

Returns an array of Double containing all of the elements of this generic array.

```

public fun Array<out Double>.toDoubleArray(): DoubleArray {
 return DoubleArray(size) { index ->
this[index] }
}

```

Returns an array of Float containing all of the elements of this generic array.

```

public fun Array<out Float>.toFloatArray(): FloatArray {
 return FloatArray(size) { index -> this[index] }
}

```

Returns an array of Int containing all of the elements of this generic array.

```

public fun Array<out Int>.toIntArray(): IntArray {
 return IntArray(size) { index -> this[index] }
}

```

Returns an array of Long containing all of the elements of this generic array.

```

public fun Array<out Long>.toLongArray(): LongArray {
 return LongArray(size) { index -> this[index] }
}

```

Returns an array of Short containing all of the elements of this generic array.

```

public fun Array<out Short>.toShortArray(): ShortArray {
 return ShortArray(size) { index -> this[index] }
}

```

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

```

public expect fun ByteArray.toTypedArray(): Array<Byte>

```

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

```

public expect fun ShortArray.toTypedArray(): Array<Short>

```

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

```

public expect fun IntArray.toTypedArray(): Array<Int>

```

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

```

public expect fun LongArray.toTypedArray(): Array<Long>

```

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

```

public expect fun FloatArray.toTypedArray(): Array<Float>

```

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

```

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

```

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

```

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

```

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

```

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

```

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

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 array.

@sample samples.collections.Arrays.Transformations.associateArrayOfPrimitives

```

public inline fun <T, K, V> Array<out T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {
 val capacity = mapCapacity(size).coerceAtLeast(16)
 return associateTo(LinkedHashMap<K, V>(capacity), transform)
}

```

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

elements of the given array.

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 array.

@sample

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitives
public inline fun <K, V>
ByteArray.associate(transform: (Byte) -> Pair<K, V>): Map<K, V> {
 val capacity =
 mapCapacity(size).coerceAtLeast(16)
 return associateTo(LinkedHashMap<K, V>(capacity),
 transform)
}

```

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

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 array.

@sample

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitives
public inline fun <K, V>
ShortArray.associate(transform: (Short) -> Pair<K, V>): Map<K, V> {
 val capacity =
 mapCapacity(size).coerceAtLeast(16)
 return associateTo(LinkedHashMap<K, V>(capacity),
 transform)
}

```

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

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 array.

@sample

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitives
public inline fun <K, V>
IntArray.associate(transform: (Int) -> Pair<K, V>): Map<K, V> {
 val capacity =
 mapCapacity(size).coerceAtLeast(16)
 return associateTo(LinkedHashMap<K, V>(capacity),
 transform)
}

```

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

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 array.

@sample

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitives
public inline fun <K, V>
LongArray.associate(transform: (Long) -> Pair<K, V>): Map<K, V> {
 val capacity =
 mapCapacity(size).coerceAtLeast(16)
 return associateTo(LinkedHashMap<K, V>(capacity),
 transform)
}

```

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

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 array.

@sample

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitives
public inline fun <K, V>
FloatArray.associate(transform: (Float) -> Pair<K, V>): Map<K, V> {
 val capacity =
 mapCapacity(size).coerceAtLeast(16)
 return associateTo(LinkedHashMap<K, V>(capacity),
 transform)
}

```

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

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 array.

@sample

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitives
public inline fun <K, V>
DoubleArray.associate(transform: (Double) -> Pair<K, V>): Map<K, V> {
 val capacity =
 mapCapacity(size).coerceAtLeast(16)
 return associateTo(LinkedHashMap<K, V>(capacity),
 transform)
}

```

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

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 array.

@sample

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitives
public inline fun <K, V>
BooleanArray.associate(transform: (Boolean) -> Pair<K, V>): Map<K, V> {
 val capacity =
 mapCapacity(size).coerceAtLeast(16)
 return associateTo(LinkedHashMap<K, V>(capacity),
 transform)
}

```

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

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 array.

@sample

```

samples.collections.Arrays.Transformations.associateArrayOfPrimitives
public inline fun <K, V>
CharArray.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {
 val capacity =
 mapCapacity(size).coerceAtLeast(16)
 return associateTo(LinkedHashMap<K, V>(capacity),
 transform)
}

```

Returns a [Map] containing the elements from the given array indexed by the key

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
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
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 *
@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 \* \n public 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 \* \n public 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 \* \n public 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 \* \n public 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 \* \n public 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 \* \n public 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 \* \n public inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\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 \* \n public

```

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 */\n
public inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateByTo(destination: M,
keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {\n for (element in this) {\n
destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector]
function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n *
\n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n *

```

```

\n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesByToWithValueTransform\n
*/\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateByTo(destination: M, keySelector:\n
(Char) -> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n
destination.put(keySelector(element), valueTransform(element))\n } \n return destination\n}\n\n/**\n * Populates
and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic
inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateTo(destination: M, transform: (T) ->
Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n } \n return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by
[transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key
the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M :
MutableMap<in K, in V>> ByteArray.associateTo(destination: M, transform: (Byte) -> Pair<K, V>): M {\n for
(element in this) {\n destination += transform(element)\n } \n return destination\n}\n\n/**\n * Populates and
returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic
inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateTo(destination: M, transform: (Short) ->
Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n } \n return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by
[transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key
the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M :
MutableMap<in K, in V>> IntArray.associateTo(destination: M, transform: (Int) -> Pair<K, V>): M {\n for
(element in this) {\n destination += transform(element)\n } \n return destination\n}\n\n/**\n * Populates and
returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic
inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateTo(destination: M, transform: (Long) ->
Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n } \n return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by
[transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key
the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M :
MutableMap<in K, in V>> FloatArray.associateTo(destination: M, transform: (Float) -> Pair<K, V>): M {\n for
(element in this) {\n destination += transform(element)\n } \n return destination\n}\n\n/**\n * Populates and
returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each
element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the
map.\n * \n * @sample samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic
inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateTo(destination: M, transform: (Double) ->
Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n } \n return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by
[transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key
the last one gets added to the map.\n * \n * @sample
samples.collections.Arrays.Transformations.associateArrayOfPrimitivesTo\n */\npublic inline fun <K, V, M :
MutableMap<in K, in V>> BooleanArray.associateTo(destination: M, transform: (Boolean) -> Pair<K, V>): M {\n
for (element in this) {\n destination += transform(element)\n } \n return destination\n}\n\n/**\n * Populates

```

and returns the [destination] mutable map with key-value pairs 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>> CharArray.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {
 for (element in this) {
 destination += transform(element)
 }
 return destination
}
```

Returns a [Map] where keys are elements from the given array and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original array.

`@sample samples.collections.Collections.Transformations.associateWith`

```
@SinceKotlin("1.4")
public inline fun <K, V> Array<out K>.associateWith(valueSelector: (K) -> V): Map<K, V> {
 val result =
 LinkedHashMap<K, V>(mapCapacity(size).coerceAtLeast(16))
 return associateWithTo(result, valueSelector)
}
```

Returns a [Map] where keys are elements from the given array and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original array.

`@sample samples.collections.Collections.Transformations.associateWith`

```
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V>
ByteArray.associateWith(valueSelector: (Byte) -> V): Map<Byte, V> {
 val result = LinkedHashMap<Byte, V>(mapCapacity(size).coerceAtLeast(16))
 return associateWithTo(result, valueSelector)
}
```

Returns a [Map] where keys are elements from the given array and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original array.

`@sample samples.collections.Collections.Transformations.associateWith`

```
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V>
ShortArray.associateWith(valueSelector: (Short) -> V): Map<Short, V> {
 val result = LinkedHashMap<Short, V>(mapCapacity(size).coerceAtLeast(16))
 return associateWithTo(result, valueSelector)
}
```

Returns a [Map] where keys are elements from the given array and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original array.

`@sample samples.collections.Collections.Transformations.associateWith`

```
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V>
IntArray.associateWith(valueSelector: (Int) -> V): Map<Int, V> {
 val result = LinkedHashMap<Int, V>(mapCapacity(size).coerceAtLeast(16))
 return associateWithTo(result, valueSelector)
}
```

Returns a [Map] where keys are elements from the given array and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original array.

`@sample samples.collections.Collections.Transformations.associateWith`

```
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V>
LongArray.associateWith(valueSelector: (Long) -> V): Map<Long, V> {
 val result = LinkedHashMap<Long, V>(mapCapacity(size).coerceAtLeast(16))
 return associateWithTo(result, valueSelector)
}
```

Returns a [Map] where keys are elements from the given array and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The returned map preserves the entry iteration order of the original array.

`@sample samples.collections.Collections.Transformations.associateWith`

```
@SinceKotlin("1.4")
@kotlin.internal.InlineOnly
public inline fun <V>
FloatArray.associateWith(valueSelector: (Float) -> V): Map<Float, V> {
 val result = LinkedHashMap<Float, V>(mapCapacity(size).coerceAtLeast(16))
 return associateWithTo(result, valueSelector)
}
```

Returns a [Map] where keys are elements from the given array and values are produced by the [valueSelector] function applied to each element. If any two elements are equal, the last one gets added to the map. The

```

returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
DoubleArray.associateWith(valueSelector: (Double) -> V): Map<Double, V> {\n val result =
LinkedHashMap<Double, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result,
valueSelector)\n}\n\n**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
BooleanArray.associateWith(valueSelector: (Boolean) -> V): Map<Boolean, V> {\n val result =
LinkedHashMap<Boolean, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result,
valueSelector)\n}\n\n**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V>
CharArray.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n val result = LinkedHashMap<Char,
V>(mapCapacity(size).coerceAtMost(128)).coerceAtLeast(16))\n return associateWithTo(result,
valueSelector)\n}\n\n**\n * Populates and returns the [destination] mutable map with key-value pairs for each
element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function
applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n
* @sample samples.collections.Collections.Transformations.associateWithTo\n *\n@SinceKotlin("1.4")\npublic
inline fun <K, V, M : MutableMap<in K, in V>> Array<out K>.associateWithTo(destination: M, valueSelector: (K)
-> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return
destination\n}\n\n**\n * Populates and returns the [destination] mutable map with key-value pairs for each element
of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied
to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n *
@sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Byte, in V>>
ByteArray.associateWithTo(destination: M, valueSelector: (Byte) -> V): M {\n for (element in this) {\n
destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n**\n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are
equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Short, in V>>
ShortArray.associateWithTo(destination: M, valueSelector: (Short) -> V): M {\n for (element in this) {\n
destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n**\n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are
equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <V, M : MutableMap<in Int, in V>>
IntArray.associateWithTo(destination: M, valueSelector: (Int) -> V): M {\n for (element in this) {\n
destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n**\n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,\n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are

```

equal, the last one overwrites the former value in the map.

```

samples.collections.Collections.Transformations.associateWithTo
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun <V, M : MutableMap<in Long, in V>>
LongArray.associateWithTo(destination: M, valueSelector: (Long) -> V): M {n for (element in this) {n
destination.put(element, valueSelector(element))n }n return destinationn}n/n/**n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.n * n * If any two elements are
equal, the last one overwrites the former value in the map.n * n * @sample
samples.collections.Collections.Transformations.associateWithTo
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun <V, M : MutableMap<in Float, in V>>
FloatArray.associateWithTo(destination: M, valueSelector: (Float) -> V): M {n for (element in this) {n
destination.put(element, valueSelector(element))n }n return destinationn}n/n/**n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.n * n * If any two elements are
equal, the last one overwrites the former value in the map.n * n * @sample
samples.collections.Collections.Transformations.associateWithTo
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun <V, M : MutableMap<in Double, in V>>
DoubleArray.associateWithTo(destination: M, valueSelector: (Double) -> V): M {n for (element in this) {n
destination.put(element, valueSelector(element))n }n return destinationn}n/n/**n * Populates and returns the
[destination] mutable map with key-value pairs for each element of the given array,n * where key is the element
itself and value is provided by the [valueSelector] function applied to that key.n * n * If any two elements are
equal, the last one overwrites the former value in the map.n * n * @sample
samples.collections.Collections.Transformations.associateWithTo
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun <V, M : MutableMap<in Boolean, in
V>> BooleanArray.associateWithTo(destination: M, valueSelector: (Boolean) -> V): M {n for (element in this)
{n destination.put(element, valueSelector(element))n }n return destinationn}n/n/**n * Populates and
returns the [destination] mutable map with key-value pairs for each element of the given array,n * where key is the
element itself and value is provided by the [valueSelector] function applied to that key.n * n * If any two elements
are equal, the last one overwrites the former value in the map.n * n * @sample
samples.collections.Collections.Transformations.associateWithTo
*/n@SinceKotlin("1.4")n@kotlin.internal.InlineOnlynpublic inline fun <V, M : MutableMap<in Char, in V>>
CharArray.associateWithTo(destination: M, valueSelector: (Char) -> V): M {n for (element in this) {n
destination.put(element, valueSelector(element))n }n return destinationn}n/n/**n * Appends all elements to
the given [destination] collection.n */npublic fun <T, C : MutableCollection<in T>> Array<out
T>.toCollection(destination: C): C {n for (item in this) {n destination.add(item)n }n return
destinationn}n/n/**n * Appends all elements to the given [destination] collection.n */npublic fun <C :
MutableCollection<in Byte>> ByteArray.toCollection(destination: C): C {n for (item in this) {n
destination.add(item)n }n return destinationn}n/n/**n * Appends all elements to the given [destination]
collection.n */npublic fun <C : MutableCollection<in Short>> ShortArray.toCollection(destination: C): C {n for
(item in this) {n destination.add(item)n }n return destinationn}n/n/**n * Appends all elements to the
given [destination] collection.n */npublic fun <C : MutableCollection<in Int>> IntArray.toCollection(destination:
C): C {n for (item in this) {n destination.add(item)n }n return destinationn}n/n/**n * Appends all
elements to the given [destination] collection.n */npublic fun <C : MutableCollection<in Long>>
LongArray.toCollection(destination: C): C {n for (item in this) {n destination.add(item)n }n return
destinationn}n/n/**n * Appends all elements to the given [destination] collection.n */npublic fun <C :
MutableCollection<in Float>> FloatArray.toCollection(destination: C): C {n for (item in this) {n
destination.add(item)n }n return destinationn}n/n/**n * Appends all elements to the given [destination]
collection.n */npublic fun <C : MutableCollection<in Double>> DoubleArray.toCollection(destination: C): C {n

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for (item in this) {\n destination.add(item)\n } \n return destination\n}\n\n/**\n * Appends all elements to the
given [destination] collection.\n */\npublic fun <C : MutableCollection<in Boolean>>
BooleanArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return
destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C :
MutableCollection<in Char>> CharArray.toCollection(destination: C): C {\n for (item in this) {\n
destination.add(item)\n }\n return destination\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n
*/\npublic fun <T> Array<out T>.toHashSet(): HashSet<T> {\n return
toCollection(HashSet<T>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic
fun ByteArray.toHashSet(): HashSet<Byte> {\n return
toCollection(HashSet<Byte>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n
*/\npublic fun ShortArray.toHashSet(): HashSet<Short> {\n return
toCollection(HashSet<Short>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n
*/\npublic fun IntArray.toHashSet(): HashSet<Int> {\n return
toCollection(HashSet<Int>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n */\npublic
fun LongArray.toHashSet(): HashSet<Long> {\n return
toCollection(HashSet<Long>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n
*/\npublic fun FloatArray.toHashSet(): HashSet<Float> {\n return
toCollection(HashSet<Float>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n
*/\npublic fun DoubleArray.toHashSet(): HashSet<Double> {\n return
toCollection(HashSet<Double>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n
*/\npublic fun BooleanArray.toHashSet(): HashSet<Boolean> {\n return
toCollection(HashSet<Boolean>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [HashSet] of all elements.\n
*/\npublic fun CharArray.toHashSet(): HashSet<Char> {\n return
toCollection(HashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n}\n\n/**\n * Returns a [List] containing all
elements.\n */\npublic fun <T> Array<out T>.toList(): List<T> {\n return when (size) {\n 0 -> emptyList()\n
1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n * Returns a [List] containing all
elements.\n */\npublic fun ByteArray.toList(): List<Byte> {\n return when (size) {\n 0 -> emptyList()\n
1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*/\npublic fun ShortArray.toList(): List<Short> {\n return when (size) {\n 0 -> emptyList()\n
1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*/\npublic fun IntArray.toList(): List<Int> {\n return when (size) {\n 0 -> emptyList()\n
1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*/\npublic fun LongArray.toList(): List<Long> {\n return when (size) {\n 0 -> emptyList()\n
1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*/\npublic fun FloatArray.toList(): List<Float> {\n return when (size) {\n 0 -> emptyList()\n
1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*/\npublic fun DoubleArray.toList(): List<Double> {\n return when (size) {\n 0 -> emptyList()\n
1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*/\npublic fun BooleanArray.toList(): List<Boolean> {\n return when (size) {\n 0 -> emptyList()\n
1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n * Returns a [List] containing all elements.\n
*/\npublic fun CharArray.toList(): List<Char> {\n return when (size) {\n 0 -> emptyList()\n
1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n * Returns a new [MutableList] filled with all
elements of this array.\n */\npublic fun <T> Array<out T>.toMutableList(): MutableList<T> {\n return
ArrayList(this.asCollection())\n}\n\n/**\n * Returns a new [MutableList] filled with all elements of this array.\n
*/\npublic fun ByteArray.toMutableList(): MutableList<Byte> {\n val list = ArrayList<Byte>(size)\n for (item
in this) list.add(item)\n return list\n}\n\n/**\n * Returns a new [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 new [MutableList] filled with all elements of

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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 new [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 new [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 new [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 new [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 new [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 -> 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 * 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.coerceAtMost(128))))\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 * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n */\npublic inline fun <R> ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n * \n * @sample

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samples.collections.Collections.Transformations.flatMap\n * \npublic inline fun <R> ShortArray.flatMap(transform:
(Short) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n * \npublic inline fun <R>
IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n * \npublic inline fun <R> LongArray.flatMap(transform:
(Long) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n * \npublic inline fun <R>
FloatArray.flatMap(transform: (Float) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n * \npublic inline fun <R> DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n * \npublic inline fun <R> BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n * \npublic inline fun <R> CharArray.flatMap(transform:
(Char) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single
list of all elements yielded from results of [transform] function being invoked on each element of original array.\n *
\n * @sample samples.collections.Collections.Transformations.flatMap\n
*\n * \n@SinceKotlin("1.4")\n * \n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * \n@OverloadResolution
ByLambdaReturnType\n * \n@kotlin.jvm.JvmName("flatMapSequence")\n * \npublic inline fun <T, R> Array<out
T>.flatMap(transform: (T) -> Sequence<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element\n * and its index in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*\n * \n@SinceKotlin("1.4")\n * \n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * \n@OverloadResolution
ByLambdaReturnType\n * \n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n * \n@kotlin.internal.InlineOnly\n * \npublic
inline fun <T, R> Array<out T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
\n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n * \n@SinceKotlin("1.4")\n * \n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * \n@OverloadResolution
ByLambdaReturnType\n * \n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n * \n@kotlin.internal.InlineOnly\n * \npublic
inline fun <R> ByteArray.flatMapIndexed(transform: (index: Int, Byte) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
\n * @sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n * \n@SinceKotlin("1.4")\n * \n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * \n@OverloadResolution
ByLambdaReturnType\n * \n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n * \n@kotlin.internal.InlineOnly\n * \npublic
inline fun <R> ShortArray.flatMapIndexed(transform: (index: Int, Short) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from

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results of [transform] function being invoked on each element\n \* and its index in the original array.\n \* \n \*  
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic  
inline fun <R> IntArray.flatMapIndexed(transform: (index: Int, Int) -> Iterable<R>): List<R> {\n return  
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Returns a single list of all elements yielded from  
results of [transform] function being invoked on each element\n \* and its index in the original array.\n \* \n \*  
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic  
inline fun <R> LongArray.flatMapIndexed(transform: (index: Int, Long) -> Iterable<R>): List<R> {\n return  
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Returns a single list of all elements yielded from  
results of [transform] function being invoked on each element\n \* and its index in the original array.\n \* \n \*  
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic  
inline fun <R> FloatArray.flatMapIndexed(transform: (index: Int, Float) -> Iterable<R>): List<R> {\n return  
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Returns a single list of all elements yielded from  
results of [transform] function being invoked on each element\n \* and its index in the original array.\n \* \n \*  
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic  
inline fun <R> DoubleArray.flatMapIndexed(transform: (index: Int, Double) -> Iterable<R>): List<R> {\n return  
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Returns a single list of all elements yielded from  
results of [transform] function being invoked on each element\n \* and its index in the original array.\n \* \n \*  
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic  
inline fun <R> BooleanArray.flatMapIndexed(transform: (index: Int, Boolean) -> Iterable<R>): List<R> {\n  
return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Returns a single list of all elements yielded  
from results of [transform] function being invoked on each element\n \* and its index in the original array.\n \* \n \*  
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\n@kotlin.internal.InlineOnly\npublic  
inline fun <R> CharArray.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>): List<R> {\n return  
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Returns a single list of all elements yielded from  
results of [transform] function being invoked on each element\n \* and its index in the original array.\n \* \n \*  
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequence")\n@kotlin.internal.InlineOnly\npubli  
c inline fun <T, R> Array<out T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): List<R> {\n return  
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Appends all elements yielded from results of  
[transform] function being invoked on each element\n \* and its index in the original array, to the given  
[destination].\n
\*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution  
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli  
c inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform:  
(index: Int, T) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,

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element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> ByteArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Byte) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> ShortArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Short) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> IntArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Int) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n
 destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> LongArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Long) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> FloatArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Float) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapIndexedTo(destination: C, transform: (index:
Int, Double) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npubli
c inline fun <R, C : MutableCollection<in R>> BooleanArray.flatMapIndexedTo(destination: C, transform: (index:

```

```

Int, Boolean) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic
inline fun <R, C : MutableCollection<in R>> CharArray.flatMapIndexedTo(destination: C, transform: (index: Int,
Char) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++,
element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\flatMapIndexedSequenceTo")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Sequence<R>): C {\n var index = 0\n for (element in this) {\n val list =
transform(index++, element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n
*\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapTo(destination: C,
transform: (T) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n
destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n
*\npublic inline
fun <R, C : MutableCollection<in R>> ByteArray.flatMapTo(destination: C, transform: (Byte) -> Iterable<R>): C
{\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n
*\npublic inline fun <R, C : MutableCollection<in R>> ShortArray.flatMapTo(destination: C, transform: (Short) ->
Iterable<R>): C {\n for (element in this) {\n val
list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all
elements yielded from results of [transform] function being invoked on each element of original array, to the given
[destination].\n
*\npublic inline fun <R, C : MutableCollection<in R>> IntArray.flatMapTo(destination: C,
transform: (Int) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n
destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n
*\npublic inline
fun <R, C : MutableCollection<in R>> LongArray.flatMapTo(destination: C, transform: (Long) -> Iterable<R>): C
{\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n
*\npublic inline fun <R, C : MutableCollection<in R>> FloatArray.flatMapTo(destination: C, transform: (Float) ->
Iterable<R>): C {\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

```

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(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
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequenceTo")\npublic inline fun <T, R, C :
MutableCollection<in R>> Array<out T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {\n for
(element in this) {\n val list = transform(element)\n destination.addAll(list)\n } \n return
destination\n}\n\n/**\n * Groups elements of the original 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
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

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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

```
samples.collections.Collections.Transformations.groupByKeysAndValues\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

```
samples.collections.Collections.Transformations.groupByKeysAndValues\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

```
samples.collections.Collections.Transformations.groupByKeysAndValues\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

```

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
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
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
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
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>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -
> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key)
{ ArrayList<T>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n *^\npublic inline
fun <K, M : MutableMap<in K, MutableList<Byte>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -
> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key)
{ ArrayList<Byte>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n *^\npublic inline
fun <K, M : MutableMap<in K, MutableList<Short>>> ShortArray.groupByTo(destination: M, keySelector: (Short)
-> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<Short>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n *
Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each
element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n *
@return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n *^\npublic
inline fun <K, M : MutableMap<in K, MutableList<Int>>> IntArray.groupByTo(destination: M,
keySelector: (Int) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list =
destination.getOrPut(key) { ArrayList<Int>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n *

```

Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n \* \n \* @return The [destination] map.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \* \n \* public inline fun <K, M : MutableMap<in K, MutableList<Long>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Long>() }\n list.add(element)\n }\n return destination\n}\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n \* \n \* @return The [destination] map.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \* \n \* public inline fun <K, M : MutableMap<in K, MutableList<Float>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Float>() }\n list.add(element)\n }\n return destination\n}\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n \* \n \* @return The [destination] map.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \* \n \* public inline fun <K, M : MutableMap<in K, MutableList<Double>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Double>() }\n list.add(element)\n }\n return destination\n}\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n \* \n \* @return The [destination] map.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \* \n \* public inline fun <K, M : MutableMap<in K, MutableList<Boolean>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Boolean>() }\n list.add(element)\n }\n return destination\n}\n\n/\*\*\n \* Groups elements of the original array by the key returned by the given [keySelector] function\n \* applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n \* \n \* @return The [destination] map.\n \* \n \* @sample samples.collections.Collections.Transformations.groupBy\n \* \n \* public inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharArray.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 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 \* public inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\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 \* public inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/\*\*\n \* Groups values returned by the [valueTransform] function applied to each element of the original array\n \* by the key returned by the given [keySelector] function applied to the element\n \* and puts to the [destination] map each group key associated with a list of corresponding values.\n \* \n \* @return The [destination]

```

map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n *^\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ShortArray.groupByTo(destination: M, keySelector:
(Short) -> K, valueTransform: (Short) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n
val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n *^\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> IntArray.groupByTo(destination: M, keySelector:
(Int) -> K, valueTransform: (Int) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n
val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n *^\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> LongArray.groupByTo(destination: M, keySelector:
(Long) -> K, valueTransform: (Long) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n
val list = destination.getOrPut(key) { ArrayList<V>() }\n 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>>> FloatArray.groupByTo(destination: M, keySelector:
(Float) -> K, valueTransform: (Float) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n
val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n *^\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> DoubleArray.groupByTo(destination: M, keySelector:
(Double) -> K, valueTransform: (Double) -> V): M {\n for (element in this) {\n val key =
keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n
list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the
[valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a
list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeyAndValues\n *^\npublic inline fun <K, V, M :
MutableMap<in K, MutableList<V>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K,
valueTransform: (Boolean) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list
= destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the
original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the
[destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination]
map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeyAndValues\n *^\npublic
inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharArray.groupByTo(destination: M, keySelector:
(Char) -> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n
val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return
destination\n}\n\n/**\n * Creates a [Grouping] source from an array to be used later with one of group-and-fold

```

operations using the specified [keySelector] function to extract a key from each element.

```

@sample
samples.collections.Grouping.groupingByEachCount
@SinceKotlin("1.1")
public inline fun <T, K>
Array<out T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {
 return object : Grouping<T, K> {
 override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()
 override fun
keyOf(element: T): K = keySelector(element)
 }
}

```

Returns a list containing the results of applying the given [transform] function to each element in the original array.

```

@sample
samples.collections.Collections.Transformations.map
public inline fun <T, R> Array<out T>.map(transform:
(T) -> R): List<R> {
 return mapTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element in the original array.

```

@sample
samples.collections.Collections.Transformations.map
public inline fun <R> ByteArray.map(transform: (Byte)
-> R): List<R> {
 return mapTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element in the original array.

```

@sample
samples.collections.Collections.Transformations.map
public inline fun <R> ShortArray.map(transform:
(Short) -> R): List<R> {
 return mapTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element in the original array.

```

@sample
samples.collections.Collections.Transformations.map
public inline fun <R> IntArray.map(transform: (Int) ->
R): List<R> {
 return mapTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element in the original array.

```

@sample
samples.collections.Collections.Transformations.map
public inline fun <R> LongArray.map(transform:
(Long) -> R): List<R> {
 return mapTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element in the original array.

```

@sample
samples.collections.Collections.Transformations.map
public inline fun <R> FloatArray.map(transform: (Float)
-> R): List<R> {
 return mapTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element in the original array.

```

@sample
samples.collections.Collections.Transformations.map
public inline fun <R> DoubleArray.map(transform:
(Double) -> R): List<R> {
 return mapTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element in the original array.

```

@sample
samples.collections.Collections.Transformations.map
public inline fun <R> BooleanArray.map(transform:
(Boolean) -> R): List<R> {
 return mapTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element in the original array.

```

@sample
samples.collections.Collections.Transformations.map
public inline fun <R>
CharArray.map(transform: (Char) -> R): List<R> {
 return mapTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <T, R> Array<out
T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {
 return mapIndexedTo(ArrayList<R>(size),
transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <R>
ByteArray.mapIndexed(transform: (index: Int, Byte) -> R): List<R> {
 return
mapIndexedTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <R> ShortArray.mapIndexed(transform:
(index: Int, Short) -> R): List<R> {
 return
mapIndexedTo(ArrayList<R>(size), transform)
}

```

Returns a list containing the results of applying the given [transform] function to each element and its index in the original array.

@param [transform] function that takes the index of an element and the element itself and returns the result of the transform applied to the element.

```

public inline fun <R> IntArray.mapIndexed(transform:
(index: Int, Int) -> R): List<R> {
 return

```

```

return mapIndexedTo(ArrayList<R>(size), transform)\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 * 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 * 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 * 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 * 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 * Returns a list containing only the non-null results of
applying the given [transform] function\n * to each element and its index in the original array.\n * @param
[transform] function that takes the index of an element and the element itself\n * and returns the result of the
transform applied to the element.\n */\npublic inline fun <T, R : Any> Array<out
T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n
return
mapIndexedNotNullTo(ArrayList<R>(), transform)\n\n/**\n * 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 * 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 * 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 * 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 * Applies the given
[transform] function to each element and its index in the original array\n * and appends the results to the given

```

[destination].\n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \*\npublic inline fun <R, C : MutableCollection<in R>> IntArray.mapIndexedTo(destination: C, transform: (index: Int, Int) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/\*\*\n \* Applies the given [transform] function to each element and its index in the original array\n \* and appends the results to the given [destination].\n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \*\npublic inline fun <R, C : MutableCollection<in R>> LongArray.mapIndexedTo(destination: C, transform: (index: Int, Long) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/\*\*\n \* Applies the given [transform] function to each element and its index in the original array\n \* and appends the results to the given [destination].\n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \*\npublic inline fun <R, C : MutableCollection<in R>> FloatArray.mapIndexedTo(destination: C, transform: (index: Int, Float) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/\*\*\n \* Applies the given [transform] function to each element and its index in the original array\n \* and appends the results to the given [destination].\n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \*\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.mapIndexedTo(destination: C, transform: (index: Int, Double) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/\*\*\n \* Applies the given [transform] function to each element and its index in the original array\n \* and appends the results to the given [destination].\n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \*\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.mapIndexedTo(destination: C, transform: (index: Int, Boolean) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/\*\*\n \* Applies the given [transform] function to each element and its index in the original array\n \* and appends the results to the given [destination].\n \* @param [transform] function that takes the index of an element and the element itself\n \* and returns the result of the transform applied to the element.\n \*\npublic inline fun <R, C : MutableCollection<in R>> CharArray.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/\*\*\n \* Returns a list containing only the non-null results of applying the given [transform] function\n \* to each element in the original array.\n \* \n \* @sample samples.collections.Collections.Transformations.mapNotNull\n \*\npublic inline fun <T, R : Any> Array<out T>.mapNotNull(transform: (T) -> R?): List<R> {\n return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Applies the given [transform] function to each element in the original array\n \* and appends only the non-null results to the given [destination].\n \*\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Array<out T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n forEach { element -> transform(element)?.let { destination.add(it) } }\n return destination\n}\n\n/\*\*\n \* Applies the given [transform] function to each element of the original array\n \* and appends the results to the given [destination].\n \*\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.mapTo(destination: C, transform: (T) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/\*\*\n \* Applies the given [transform] function to each element of the original array\n \* and appends the results to the given [destination].\n \*\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.mapTo(destination: C, transform: (Byte) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/\*\*\n \* Applies the given [transform] function to each element of the original array\n \* and appends the results to the given [destination].\n \*\npublic inline fun <R, C : MutableCollection<in R>> ShortArray.mapTo(destination: C, transform: (Short) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/\*\*\n \* Applies the given [transform] function to each element of the original array\n \* and appends the results to the given [destination].\n \*\npublic inline fun <R, C : MutableCollection<in R>> IntArray.mapTo(destination: C, transform: (Int) -> R): C {\n for (item in this)\n

```

destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each
element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C :
MutableCollection<in R>> LongArray.mapTo(destination: C, transform: (Long) -> R): C {\n for (item in this)\n
destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to
each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R,
C : MutableCollection<in R>> FloatArray.mapTo(destination: C, transform: (Float) -> R): C {\n for (item in
this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform]
function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic
inline fun <R, C : MutableCollection<in R>> DoubleArray.mapTo(destination: C, transform: (Double) -> R): C {\n
for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given
[transform] function to each element of the original array\n * and appends the results to the given [destination].\n
*/\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.mapTo(destination: C, transform: (Boolean)
-> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies
the given [transform] function to each element of the original array\n * and appends the results to the given
[destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharArray.mapTo(destination: C,
transform: (Char) -> R): C {\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>>
{\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
* 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 * 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 * 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 * 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 * Returns a list containing
only distinct elements from the given array.\n * \n * Among equal elements of the given array, only the first one will
be present in the resulting list.\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 * 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 * 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 * 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 * 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 * 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 * Returns a list containing only distinct elements
from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source
array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\npublic fun
DoubleArray.distinct(): List<Double> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list
containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same
order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\npublic fun BooleanArray.distinct():
List<Boolean> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct
elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the
source array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\npublic
fun CharArray.distinct(): List<Char> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing
only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n *
Among elements of the given array with equal keys, only the first one will be present in the resulting list.\n * The
elements in the resulting list are in the same order as they were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\npublic inline fun <T, K> Array<out
T>.distinctBy(selector: (T) -> K): List<T> {\n val set = HashSet<K>()\n val list = ArrayList<T>()\n for (e in
this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n *
Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector]
function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n * \n *
@sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\npublic inline fun <K>
ByteArray.distinctBy(selector: (Byte) -> K): List<Byte> {\n val set = HashSet<K>()\n val list =
ArrayList<Byte>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n
return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\npublic inline fun <K>
ShortArray.distinctBy(selector: (Short) -> K): List<Short> {\n val set = HashSet<K>()\n val list =
ArrayList<Short>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n
return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\npublic inline fun <K>
IntArray.distinctBy(selector: (Int) -> K): List<Int> {\n val set = HashSet<K>()\n val list = ArrayList<Int>()\n
for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n *
Returns a list containing only elements from the given array\n * having distinct keys returned by the given

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[selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source
array.\n * \n * @sample samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\npublic inline
fun <K> LongArray.distinctBy(selector: (Long) -> K): List<Long> {\n val set = HashSet<K>()\n val list =
ArrayList<Long>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\npublic inline fun <K>
FloatArray.distinctBy(selector: (Float) -> K): List<Float> {\n val set = HashSet<K>()\n val list =
ArrayList<Float>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\npublic inline fun <K>
DoubleArray.distinctBy(selector: (Double) -> K): List<Double> {\n val set = HashSet<K>()\n val list =
ArrayList<Double>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\npublic inline fun <K>
BooleanArray.distinctBy(selector: (Boolean) -> K): List<Boolean> {\n val set = HashSet<K>()\n val list =
ArrayList<Boolean>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys
returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they
were in the source array.\n * \n * @sample
samples.collections.Collections.Transformations.distinctAndDistinctBy\n *^\npublic inline fun <K>
CharArray.distinctBy(selector: (Char) -> K): List<Char> {\n val set = HashSet<K>()\n val list =
ArrayList<Char>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified
collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set
containing all elements that are contained at least in one of these collections use [union].\n *^\npublic infix fun <T>
Array<out T>.intersect(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified
collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set
containing all elements that are contained at least in one of these collections use [union].\n *^\npublic infix fun
ByteArray.intersect(other: Iterable<Byte>): Set<Byte> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified
collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set
containing all elements that are contained at least in one of these collections use [union].\n *^\npublic infix fun
ShortArray.intersect(other: Iterable<Short>): Set<Short> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this
array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original
array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use
[union].\n *^\npublic infix fun IntArray.intersect(other: Iterable<Int>): Set<Int> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this
array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original
array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use
[union].\n *^\npublic infix fun LongArray.intersect(other: Iterable<Long>): Set<Long> {\n val set =

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T>.toMutableSet(): MutableSet<T> {\n return toCollection(LinkedHashSet<T>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set\n preserves the element iteration order of the original array.\n */\npublic fun ByteArray.toMutableSet():\nMutableSet<Byte> {\n return toCollection(LinkedHashSet<Byte>(mapCapacity(size)))\n}\n\n/**\n * Returns a\n new [MutableSet] containing all distinct elements from the given array.\n * \n * The returned set preserves the\n element iteration order of the original array.\n */\npublic fun ShortArray.toMutableSet(): MutableSet<Short> {\n\n return toCollection(LinkedHashSet<Short>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet]\n containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order\n of the original array.\n */\npublic fun IntArray.toMutableSet(): MutableSet<Int> {\n return\n toCollection(LinkedHashSet<Int>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all\n distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original\n array.\n */\npublic fun LongArray.toMutableSet(): MutableSet<Long> {\n return\n toCollection(LinkedHashSet<Long>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all\n distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original\n array.\n */\npublic fun FloatArray.toMutableSet(): MutableSet<Float> {\n return\n toCollection(LinkedHashSet<Float>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing all\n distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original\n array.\n */\npublic fun DoubleArray.toMutableSet(): MutableSet<Double> {\n return\n toCollection(LinkedHashSet<Double>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing\n all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the\n original array.\n */\npublic fun BooleanArray.toMutableSet(): MutableSet<Boolean> {\n return\n toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))\n}\n\n/**\n * Returns a new [MutableSet] containing\n all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the\n original array.\n */\npublic fun CharArray.toMutableSet(): MutableSet<Char> {\n return\n toCollection(LinkedHashSet<Char>(mapCapacity(size.coerceAtMost(128))))\n}\n\n/**\n * Returns a set containing\n all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the\n original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of\n the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use\n [intersect].\n */\npublic infix fun <T> Array<out T>.union(other: Iterable<T>): Set<T> {\n val set =\n this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements\n from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those\n 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\nByteArray.union(other: Iterable<Byte>): Set<Byte> {\n val set = this.toMutableSet()\n set.addAll(other)\n\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set\n preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are\n unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements\n that are contained in both collections use [intersect].\n */\npublic infix fun\nShortArray.union(other:\nIterable<Short>): Set<Short> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element\n iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the\n end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both\n collections use [intersect].\n */\npublic infix fun\nIntArray.union(other: Iterable<Int>): Set<Int> {\n val set =\n this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements\n from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those\n 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\nLongArray.union(other: Iterable<Long>): Set<Long> {\n val set = this.toMutableSet()\n set.addAll(other)\n}

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return set\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set
preserves the element iteration
order of the original array.\n * Those elements of the [other] collection that are
unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements
that are contained in both collections use [intersect].\n */\npublic infix fun FloatArray.union(other: Iterable<Float>):
Set<Float> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set
containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order
of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the
order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use
[intersect].\n */\npublic infix fun DoubleArray.union(other: Iterable<Double>): Set<Double> {\n val set =
this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements
from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those
elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n *
\n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun
BooleanArray.union(other: Iterable<Boolean>): Set<Boolean> {\n val set = this.toMutableSet()\n
set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n *
\n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other]
collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set
containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun
CharArray.union(other: Iterable<Char>): Set<Char> {\n val set = this.toMutableSet()\n set.addAll(other)\n
return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n */\npublic inline fun <T> Array<out T>.all(predicate: (T) ->
Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n *
Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n */\npublic inline fun ByteArray.all(predicate: (Byte) -> Boolean):
Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true`
if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n
*/\npublic inline fun ShortArray.all(predicate: (Short) -> Boolean): Boolean {\n for (element in this) if
(!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if all elements match the given
[predicate].\n * \n * @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

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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.anyWithPredicate\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.anyWithPredicate\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.anyWithPredicate\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.anyWithPredicate\n *^\npublic inline fun IntArray.any(predicate: (Int) -
> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n *
Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n *^\npublic inline fun LongArray.any(predicate:
(Long) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n *^\npublic inline fun FloatArray.any(predicate:
(Float) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n *^\npublic inline fun DoubleArray.any(predicate:
(Double) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n *^\npublic inline fun BooleanArray.any(predicate:
(Boolean) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return
false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n *^\npublic inline fun CharArray.any(predicate:
(Char) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return
false\n}\n\n/**\n * Returns the number of elements in this array.\n * \n *^\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

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return size\n}\n\n/**\n * Returns the number of elements in this array.\n *\n@kotlin.internal.InlineOnly\npublic
inline fun DoubleArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n *\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.count(): Int {\n return size\n}\n\n/**\n * Returns
the number of elements in this array.\n *\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.count(): Int {\n
 return size\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n *\npublic inline fun
<T> Array<out T>.count(predicate: (T) -> Boolean): Int {\n var count = 0\n for (element in this) if
(predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n *\npublic inline fun ByteArray.count(predicate: (Byte) -> Boolean): Int {\n var count = 0\n for
(element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements
matching the given [predicate].\n *\npublic inline fun ShortArray.count(predicate: (Short) -> Boolean): Int {\n var
count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the
number of elements matching the given [predicate].\n *\npublic inline fun IntArray.count(predicate: (Int) ->
Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return
count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n *\npublic inline fun
LongArray.count(predicate: (Long) -> Boolean): Int {\n var count = 0\n for (element in this) if
(predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n *\npublic inline fun FloatArray.count(predicate: (Float) -> Boolean): Int {\n var count = 0\n for
(element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements
matching the given [predicate].\n *\npublic inline fun DoubleArray.count(predicate: (Double) -> Boolean): Int {\n
var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the
number of elements matching the given [predicate].\n *\npublic inline fun BooleanArray.count(predicate: (Boolean)
-> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return
count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n *\npublic inline fun
CharArray.count(predicate: (Char) -> Boolean): Int {\n var count = 0\n for (element in this) if
(predicate(element)) ++count\n return count\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator
value and an element, and calculates the next accumulator value.\n *\npublic inline fun <T, R> Array<out
T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n var accumulator = initial\n for (element in this)
accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n *
\n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.\n *\npublic inline fun <R>
ByteArray.fold(initial: R, operation: (acc: R, Byte) -> R): R {\n var accumulator = initial\n for (element in
this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n *
\n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.\n *\npublic inline fun <R>
ShortArray.fold(initial: R, operation: (acc: R, Short) -> R): R {\n var accumulator = initial\n for (element in
this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n *
\n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.\n *\npublic inline fun <R>
IntArray.fold(initial: R, operation: (acc: R, Int) -> R): R {\n var accumulator = initial\n for (element in
this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n *
\n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.\n *\npublic inline fun <R>

```

```

LongArray.fold(initial: R, operation: (acc: R, Long) -> R): R {
 var accumulator = initial
 for (element in this)
 accumulator = operation(accumulator, element)
 return accumulator
}
// Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.
// Returns the specified [initial] value if the array is empty.
// @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
public inline fun <R> FloatArray.fold(initial: R, operation: (acc: R, Float) -> R): R {
 var accumulator = initial
 for (element in this)
 accumulator = operation(accumulator, element)
 return accumulator
}
// Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.
// Returns the specified [initial] value if the array is empty.
// @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
public inline fun <R> DoubleArray.fold(initial: R, operation: (acc: R, Double) -> R): R {
 var accumulator = initial
 for (element in this)
 accumulator = operation(accumulator, element)
 return accumulator
}
// Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.
// Returns the specified [initial] value if the array is empty.
// @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
public inline fun <R> BooleanArray.fold(initial: R, operation: (acc: R, Boolean) -> R): R {
 var accumulator = initial
 for (element in this)
 accumulator = operation(accumulator, element)
 return accumulator
}
// Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.
// Returns the specified [initial] value if the array is empty.
// @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.
public inline fun <R> CharArray.fold(initial: R, operation: (acc: R, Char) -> R): R {
 var accumulator = initial
 for (element in this)
 accumulator = operation(accumulator, element)
 return accumulator
}
// Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.
// Returns the specified [initial] value if the array is empty.
// @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
public inline fun <T, R> Array<out T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {
 var index = 0
 var accumulator = initial
 for (element in this)
 accumulator = operation(index++, accumulator, element)
 return accumulator
}
// Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.
// Returns the specified [initial] value if the array is empty.
// @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
public inline fun <R> ByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): R {
 var index = 0
 var accumulator = initial
 for (element in this)
 accumulator = operation(index++, accumulator, element)
 return accumulator
}
// Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.
// Returns the specified [initial] value if the array is empty.
// @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
public inline fun <R> ShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): R {
 var index = 0
 var accumulator = initial
 for (element in this)
 accumulator = operation(index++, accumulator, element)
 return accumulator
}
// Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its index in the original array.
// Returns the specified [initial] value if the array is empty.
// @param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.
public inline fun <R> IntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): R {
 var index = 0
 var accumulator = initial
 for (element in this)
 accumulator = operation(index++, accumulator, element)
 return accumulator
}
// Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element with its

```

index in the original array.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \*/\npublic inline fun <R> 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 \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \*/\npublic inline fun <R> 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 \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \*/\npublic inline fun <R> 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 \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \*/\npublic inline fun <R> BooleanArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from left to right\n \* to current accumulator value and each element with its index in the original array.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \*/\npublic inline fun <R> CharArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <T, R> Array<out T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <R> ByteArray.foldRight(initial: R, operation: (Byte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n \*/\npublic inline fun <R> ShortArray.foldRight(initial: R, operation: (Short, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is



```

*^public inline fun <R> 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.
* Returns the specified [initial] value if the array is empty.
* @param [operation] function that takes the index of an element, the element itself
* and current accumulator value, and calculates the next accumulator value.

*^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.
* Returns the specified [initial] value if the array is empty.
* @param [operation] function that takes the index of an element, the element itself
* and current accumulator value, and calculates the next accumulator value.

*^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.
* Returns the specified [initial] value if the array is empty.
* @param [operation] function that takes the
index of an element, the element itself
* and current accumulator value, and calculates the next accumulator
value.

*^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.
* Returns the specified [initial] value if the array is empty.
* @param [operation] function that takes the index of an element, the element itself
* and current accumulator
value, and calculates the next accumulator value.

*^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.
* Returns the
specified [initial] value if the array is empty.
* @param [operation] function that takes the index of an
element, the element itself
* and current accumulator value, and calculates the next accumulator value.

*^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.
* Returns the specified [initial] value if the array is empty.
* @param [operation] function that takes the index of an element, the element itself
* and current accumulator
value, and calculates the next accumulator value.

*^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

```

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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, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
public inline fun <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 action on the element.
 */
public inline fun ByteArray.forEachIndexed(action: (index: Int, Byte) -> Unit): Unit {
 var index = 0
 for (item in this) action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
public inline fun ShortArray.forEachIndexed(action: (index: Int, Short) -> Unit): Unit {
 var index = 0
 for (item in this) action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
public inline fun IntArray.forEachIndexed(action: (index: Int, Int) -> Unit): Unit {
 var index = 0
 for (item in this) action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
public inline fun LongArray.forEachIndexed(action: (index: Int, Long) -> Unit): Unit {
 var index = 0
 for (item in this) action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
public inline fun FloatArray.forEachIndexed(action: (index: Int, Float) -> Unit): Unit {
 var index = 0
 for (item in this) action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
public inline fun DoubleArray.forEachIndexed(action: (index: Int, Double) -> Unit): Unit {
 var index = 0
 for (item in this) action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
public inline fun BooleanArray.forEachIndexed(action: (index: Int, Boolean) -> Unit): Unit {
 var index = 0
 for (item in this) action(index++, item)
}

/**
 * Performs the given [action] on each element, providing sequential index with the element.
 * @param [action] function that takes the index of an element and the element itself
 * and performs the action on the element.
 */
public inline fun CharArray.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {
 var index = 0
 for (item in this) action(index++, item)
}

@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")
@SinceKotlin("1.1")
public fun Array<out Double>.max(): Double? {
 return maxOrNull()
}

@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")
@SinceKotlin("1.1")
public fun Array<out Float>.max(): Float? {
 return maxOrNull()
}

@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")
public fun <T : Comparable<T>> Array<out T>.max(): T? {
 return maxOrNull()
}

@Deprecated("Use maxOrNull instead.",

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ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun ByteArray.max(): Byte? {\n return maxOrNull()\n}\n\n@Deprecated("Use
maxOrNull instead.", ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic fun ShortArray.max(): Short? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun IntArray.max(): Int? {\n return maxOrNull()\n}\n\n@Deprecated("Use
maxOrNull instead.", ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic fun LongArray.max(): Long? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun FloatArray.max(): Float? {\n return maxOrNull()\n}\n\n@Deprecated("Use
maxOrNull instead.", ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic fun DoubleArray.max(): Double? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.",
ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun CharArray.max(): Char? {\n return maxOrNull()\n}\n\n@Deprecated("Use
maxByOrNull instead.", ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.4", errorSince = "1.5", hiddenSince = "1.6")\npublic inline fun <T, R : Comparable<R>> Array<out
T>.maxBy(selector: (T) -> R): T? {\n return maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull
instead.", ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic inline fun <R : Comparable<R>> ByteArray.maxBy(selector:
(Byte) -> R): Byte? {\n return maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic inline fun <R : Comparable<R>> ShortArray.maxBy(selector: (Short) -> R):
Short? {\n return maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic inline fun <R : Comparable<R>> IntArray.maxBy(selector: (Int) -> R): Int?
{\n return maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic inline fun <R : Comparable<R>> LongArray.maxBy(selector: (Long) -> R):
Long? {\n return maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic inline fun <R : Comparable<R>> FloatArray.maxBy(selector: (Float) -> R):
Float? {\n return maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic inline fun <R : Comparable<R>> DoubleArray.maxBy(selector: (Double) ->
R): Double? {\n return maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic inline fun <R : Comparable<R>> BooleanArray.maxBy(selector: (Boolean) -
> R): Boolean? {\n return maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic inline fun <R : Comparable<R>> CharArray.maxBy(selector: (Char) -> R):
Char? {\n return maxByOrNull(selector)\n}\n\n/*\n * Returns the first element yielding the largest value of the
given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin("1.4")\npublic inline fun <T, R :
Comparable<R>> Array<out T>.maxByOrNull(selector: (T) -> R): T? {\n if (isEmpty()) return null\n var
maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxVal =

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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.maxByOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> ByteArray.maxByOrNull(selector: (Byte) -> R): Byte? {\n if (isEmpty()) return null\n var
maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)
{\n 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.maxByOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> ShortArray.maxByOrNull(selector: (Short) -> R): Short? {\n if (isEmpty()) return null\n var
maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
selector(maxElem)\n for (i in 1..lastIndex) {\n 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.maxByOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> IntArray.maxByOrNull(selector: (Int) -> R): Int? {\n if (isEmpty()) return null\n var maxElem
= this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)
{\n 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.maxByOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> LongArray.maxByOrNull(selector: (Long) -> R): Long? {\n if (isEmpty()) return null\n var
maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)
{\n 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.maxByOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> FloatArray.maxByOrNull(selector: (Float) -> R): Float? {\n if (isEmpty()) return null\n var
maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)
{\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n * Returns the first
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samples.collections.Collections.Aggregates.maxByOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> DoubleArray.maxByOrNull(selector: (Double) -> R): Double? {\n if (isEmpty()) return null\n
var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)
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samples.collections.Collections.Aggregates.maxByOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> BooleanArray.maxByOrNull(selector: (Boolean) -> R): Boolean? {\n if (isEmpty()) return
null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var
maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if
(maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.maxByOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun
<R : Comparable<R>> CharArray.maxByOrNull(selector: (Char) -> R): Char? {\n if (isEmpty()) return null\n
var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =

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selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)\n {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOf(selector: (T) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOf(selector: (Byte) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOf(selector: (Short) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOf(selector: (Int) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOf(selector: (Long) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOf(selector: (Float) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOf(selector: (Double) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOf(selector: (Boolean) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
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*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOf(selector: (Char) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
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*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOf(selector: (T) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOf(selector: (Byte) -> Float):
Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
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*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOf(selector: (Short) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
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*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOf(selector: (Int) -> Float):
Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.maxOf(selector: (Long) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOf(selector: (Float) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOf(selector: (Double) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOf(selector: (Boolean) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOf(selector: (Char) -> Float):
Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out
T>.maxOf(selector: (T) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ByteArray.maxOf(selector: (Byte) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values
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ShortArray.maxOf(selector: (Short) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
IntArray.maxOf(selector: (Int) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
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LongArray.maxOf(selector: (Long) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
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FloatArray.maxOf(selector: (Float) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
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DoubleArray.maxOf(selector: (Double) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
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BooleanArray.maxOf(selector: (Boolean) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
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CharArray.maxOf(selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
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any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOfOrNull(selector:\n(T) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return\n maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function\n is `NaN`, the returned result is `NaN`.\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOfOrNull(selector: (Byte) ->\nDouble): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns\n the largest value among all values produced by [selector] function\n * applied to each element in the array or `null`\n if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is\n `NaN`.\n
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOfOrNull(selector: (Short) -\n> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex)\n {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array\n or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned\n result is `NaN`.\n
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOfOrNull(selector: (Float) -\n> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex)\n {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array\n or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned\n result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.maxOfOrNull(selector:\n(Double) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return\n maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
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each element in the array or `null` if there are no elements. \n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN` .\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.maxOrNull(selector: (Boolean) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN` .\n
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.maxOrNull(selector: (Char) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN` .\n
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.maxOrNull(selector: (T) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN` .\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.maxOrNull(selector: (Byte) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN` .\n
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.maxOrNull(selector: (Short) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN` .\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.maxOrNull(selector: (Int) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN` .\n
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the largest value among all values produced by [selector] function  
\* applied to each element in the array or `null`  
if there are no elements.  
\* If any of values produced by [selector] function is `NaN`, the returned result is  
`NaN`.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.maxOrNull(selector: (Float) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function
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if there are no elements.
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```
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* If any of values produced by [selector] function is `NaN`, the returned result is
`NaN`.
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```
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IntArray.maxOfOrNull(selector: (Int) -> R): R? {\n if (isEmpty()) return null\n var maxValue =
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
LongArray.maxOfOrNull(selector: (Long) -> R): R? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
FloatArray.maxOfOrNull(selector: (Float) -> R): R? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
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DoubleArray.maxOfOrNull(selector: (Double) -> R): R? {\n if (isEmpty()) return null\n var maxValue =
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CharArray.maxOfOrNull(selector: (Char) -> R): R? {\n if (isEmpty()) return null\n var maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.maxOfWith(comparator:
Comparator<in R>, selector: (Byte) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var

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maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
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ByLambdaReturnType\n * @kotlin.internal.InlineOnly\n * public inline fun <R> ShortArray.maxOfWith(comparator:
Comparator<in R>, selector: (Short) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
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Comparator<in R>, selector: (Int) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var maxValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
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Comparator<in R>, selector: (Long) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
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ByLambdaReturnType\n * @kotlin.internal.InlineOnly\n * public inline fun <R> FloatArray.maxOfWith(comparator:
Comparator<in R>, selector: (Float) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
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ByLambdaReturnType\n * @kotlin.internal.InlineOnly\n * public inline fun <R> DoubleArray.maxOfWith(comparator:
Comparator<in R>, selector: (Double) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
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ByLambdaReturnType\n * @kotlin.internal.InlineOnly\n * public inline fun <R> BooleanArray.maxOfWith(comparator:
Comparator<in R>, selector: (Boolean) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n *\n * @SinceKotlin("1.4")\n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * @OverloadResolution
ByLambdaReturnType\n * @kotlin.internal.InlineOnly\n * public inline fun <R> CharArray.maxOfWith(comparator:

```

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Comparator<in R>, selector: (Char) -> R): R? {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n if (isEmpty()) return null\n
var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? {\n if (isEmpty()) return
null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
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Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {\n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
IntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? {\n if (isEmpty()) return
null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
LongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {\n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
FloatArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? {\n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
DoubleArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {\n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
BooleanArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {\n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n if (isEmpty()) return
null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n
*\n@SinceKotlin("1.4")\npublic fun Array<out Double>.maxOrNull(): Double? {\n if (isEmpty()) return null\n
var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max = maxOf(max, e)\n }\n return
max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN`
returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic fun Array<out Float>.maxOrNull(): Float? {\n if (isEmpty())
return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max = maxOf(max, e)\n }\n
return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Array<out T>.maxOrNull(): T? {\n if (isEmpty())
return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n
return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun ByteArray.maxOrNull(): Byte? {\n if (isEmpty()) return null\n var max =
this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n *
Returns the largest element or `null` if there are no elements.\n *\n@SinceKotlin("1.4")\npublic fun
ShortArray.maxOrNull(): Short? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n
 val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if
there are no elements.\n *\n@SinceKotlin("1.4")\npublic fun IntArray.maxOrNull(): Int? {\n if (isEmpty())
return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n
return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun LongArray.maxOrNull(): Long? {\n if (isEmpty()) return null\n var max =
this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n *
Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n
*\n@SinceKotlin("1.4")\npublic fun FloatArray.maxOrNull(): Float? {\n if (isEmpty()) return null\n var max =
this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max = maxOf(max, e)\n }\n return
max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN`
returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic fun DoubleArray.maxOrNull(): Double? {\n if (isEmpty())
return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n max = maxOf(max, e)\n }\n
return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\npublic fun CharArray.maxOrNull(): Char? {\n if (isEmpty()) return null\n var max =
this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return
max\n}\n}\n\n@Deprecated("Use maxWithOrNull instead.",

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ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun <T> Array<out T>.maxWith(comparator: Comparator<in T>): T? {\n
return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.\",
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun ByteArray.maxWith(comparator: Comparator<in Byte>): Byte? {\n
return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.\",
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun ShortArray.maxWith(comparator: Comparator<in Short>): Short? {\n
return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.\",
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun IntArray.maxWith(comparator: Comparator<in Int>): Int? {\n
return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.\",
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun LongArray.maxWith(comparator: Comparator<in Long>): Long? {\n
return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.\",
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun FloatArray.maxWith(comparator: Comparator<in Float>): Float? {\n
return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.\",
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun DoubleArray.maxWith(comparator: Comparator<in Double>): Double?
{\n
return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.\",
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun BooleanArray.maxWith(comparator: Comparator<in Boolean>):
Boolean? {\n
return maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.\",
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun CharArray.maxWith(comparator: Comparator<in Char>): Char? {\n
return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the largest value according to the
provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun <T> Array<out
T>.maxWithOrNull(comparator: Comparator<in T>): T? {\n
if (isEmpty()) return null\n
var max = this[0]\n
for (i in 1..lastIndex) {\n
val e = this[i]\n
if (comparator.compare(max, e) < 0) max = e\n
}\n
return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null`
if there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun ByteArray.maxWithOrNull(comparator:
Comparator<in Byte>): Byte? {\n
if (isEmpty()) return null\n
var max = this[0]\n
for (i in 1..lastIndex) {\n
val e = this[i]\n
if (comparator.compare(max, e) < 0) max = e\n
}\n
return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null`
if there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun ShortArray.maxWithOrNull(comparator: Comparator<in Short>): Short? {\n
if (isEmpty()) return null\n
var max = this[0]\n
for (i in 1..lastIndex) {\n
val e = this[i]\n
if (comparator.compare(max, e) < 0) max = e\n
}\n
return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null`
if there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun IntArray.maxWithOrNull(comparator: Comparator<in Int>): Int? {\n
if (isEmpty()) return null\n
var max = this[0]\n
for (i in 1..lastIndex) {\n
val e = this[i]\n
if (comparator.compare(max, e) < 0) max = e\n
}\n
return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null`
if there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun LongArray.maxWithOrNull(comparator: Comparator<in Long>): Long? {\n
if (isEmpty()) return null\n
var max = this[0]\n
for (i in 1..lastIndex) {\n
val e = this[i]\n
if (comparator.compare(max, e) < 0) max = e\n
}\n
return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null`
if there are no elements.\n */\n@SinceKotlin("1.4")\npublic fun FloatArray.maxWithOrNull(comparator: Comparator<in Float>): Float? {\n

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if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*/\n\n@SinceKotlin("1.4")\npublic fun DoubleArray.maxWithOrNull(comparator: Comparator<in Double>):
Double? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n
if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*/\n\n@SinceKotlin("1.4")\npublic fun BooleanArray.maxWithOrNull(comparator: Comparator<in Boolean>):
Boolean? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n
if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the
largest value according to the provided [comparator] or `null` if there are no elements.\n
*/\n\n@SinceKotlin("1.4")\npublic fun CharArray.maxWithOrNull(comparator: Comparator<in Char>): Char? {\n
if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Array<out Double>.min(): Double? {\n return
minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Array<out Float>.min(): Float? {\n return
minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun <T : Comparable<T>> Array<out T>.min(): T? {\n return
minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun ByteArray.min(): Byte? {\n return minOrNull()\n}\n\n@Deprecated("Use
minOrNull instead.", ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic fun ShortArray.min(): Short? {\n return
minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun IntArray.min(): Int? {\n return minOrNull()\n}\n\n@Deprecated("Use
minOrNull instead.", ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic fun LongArray.min(): Long? {\n return
minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun FloatArray.min(): Float? {\n return minOrNull()\n}\n\n@Deprecated("Use
minOrNull instead.", ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic fun DoubleArray.min(): Double? {\n return
minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun CharArray.min(): Char? {\n return minOrNull()\n}\n\n@Deprecated("Use
minByOrNull instead.", ReplaceWith("this.minByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.4", errorSince = "1.5", hiddenSince = "1.6")\npublic inline fun <T, R : Comparable<R>> Array<out
T>.minBy(selector: (T) -> R): T? {\n return minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull
instead.", ReplaceWith("this.minByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic inline fun <R : Comparable<R>> ByteArray.minBy(selector:
(Byte) -> R): Byte? {\n return minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead.",
ReplaceWith("this.minByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic inline fun <R : Comparable<R>> ShortArray.minBy(selector: (Short) -> R):

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Short? { \n return minByOrNull(selector)\n}\n\n@Deprecated(\\"Use minByOrNull instead.\",
ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince =
\\"1.5\", hiddenSince = \\"1.6\")\npublic inline fun <R : Comparable<R>> IntArray.minBy(selector: (Int) -> R): Int?
{\n return minByOrNull(selector)\n}\n\n@Deprecated(\\"Use minByOrNull instead.\",
ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince =
\\"1.5\", hiddenSince = \\"1.6\")\npublic inline fun <R : Comparable<R>> LongArray.minBy(selector: (Long) -> R):
Long? {\n return minByOrNull(selector)\n}\n\n@Deprecated(\\"Use minByOrNull instead.\",
ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince =
\\"1.5\", hiddenSince = \\"1.6\")\npublic inline fun <R : Comparable<R>> FloatArray.minBy(selector: (Float) -> R):
Float? {\n return minByOrNull(selector)\n}\n\n@Deprecated(\\"Use minByOrNull instead.\",
ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince =
\\"1.5\", hiddenSince = \\"1.6\")\npublic inline fun <R : Comparable<R>> DoubleArray.minBy(selector: (Double) ->
R): Double? {\n return minByOrNull(selector)\n}\n\n@Deprecated(\\"Use minByOrNull instead.\",
ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince =
\\"1.5\", hiddenSince = \\"1.6\")\npublic inline fun <R : Comparable<R>> BooleanArray.minBy(selector: (Boolean) -
> R): Boolean? {\n return minByOrNull(selector)\n}\n\n@Deprecated(\\"Use minByOrNull instead.\",
ReplaceWith(\\"this.minByOrNull(selector)\")\n)\n@DeprecatedSinceKotlin(warningSince = \\"1.4\", errorSince =
\\"1.5\", hiddenSince = \\"1.6\")\npublic inline fun <R : Comparable<R>> CharArray.minBy(selector: (Char) -> R):
Char? {\n return minByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the smallest value of the
given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n@SinceKotlin(\\"1.4\")\npublic inline fun <T, R :
Comparable<R>> Array<out T>.minByOrNull(selector: (T) -> R): T? {\n if (isEmpty()) return null\n var
minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }}\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n@SinceKotlin(\\"1.4\")\npublic inline fun <R :
Comparable<R>> ByteArray.minByOrNull(selector: (Byte) -> R): Byte? {\n if (isEmpty()) return null\n var
minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }}\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n@SinceKotlin(\\"1.4\")\npublic inline fun <R :
Comparable<R>> ShortArray.minByOrNull(selector: (Short) -> R): Short? {\n if (isEmpty()) return null\n var
minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }}\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n@SinceKotlin(\\"1.4\")\npublic inline fun <R :
Comparable<R>> IntArray.minByOrNull(selector: (Int) -> R): Int? {\n if (isEmpty()) return null\n var minElem
= this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }}\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n@SinceKotlin(\\"1.4\")\npublic inline fun <R :
Comparable<R>> LongArray.minByOrNull(selector: (Long) -> R): Long? {\n if (isEmpty()) return null\n var
minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)

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{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n * @SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> FloatArray.minByOrNull(selector: (Float) -> R): Float? {\n if (isEmpty()) return null\n var
minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n }\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
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\n * \n * @SinceKotlin("1.4")\n * \n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * \n *
@OverloadResolutionByLambdaReturnType\n * \n * @kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOf(selector: (T) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for
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Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for
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Float): Float {n if (isEmpty()) throw NoSuchElementException()n var minValue = selector(this[0])n for (i in
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Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
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Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
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Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOf(selector: (Float) -> Float):
Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
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Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
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Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
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T>.minOf(selector: (T) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOfOrNull(selector: (Float) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOfOrNull(selector: (Double) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOfOrNull(selector: (Boolean) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOfOrNull(selector: (Char) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.minOfOrNull(selector: (T) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
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```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.minOfOrNull(selector: (Byte) ->
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Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/\*\*\n \* Returns the smallest value among all values produced by [selector] function\n \* applied to each element in the array or `null` if there are no elements.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.minOrNull(selector: (Short) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.minOrNull(selector: (Int) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.minOrNull(selector: (Long) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.minOrNull(selector: (Float) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.minOrNull(selector: (Double) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.minOrNull(selector: (Boolean) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.minOrNull(selector: (Char) ->
Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n
val v = selector(this[i])\n minValue = minOf(minValue, v)\n } return minValue\n}\n\n/**\n * Returns the
smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if
there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>> Array<out
T>.minOrNull(selector: (T) -> R): R? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n
return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n *
applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ByteArray.minOrNull(selector: (Byte) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ShortArray.minOrNull(selector: (Short) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
IntArray.minOrNull(selector: (Int) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
LongArray.minOrNull(selector: (Long) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
FloatArray.minOrNull(selector: (Float) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
DoubleArray.minOrNull(selector: (Double) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
BooleanArray.minOfOrNull(selector: (Boolean) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n *@SinceKotlin("1.4")\n *@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n *@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharArray.minOfOrNull(selector: (Char) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the array.\n * \n *
@throws NoSuchElementException if the array is empty.\n
*\n *@SinceKotlin("1.4")\n *@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n *@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if
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*\n *@SinceKotlin("1.4")\n *@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n *@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.minOfWith(comparator:
Comparator<in R>, selector: (Byte) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.minOfWith(comparator:
Comparator<in R>, selector: (Short) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.minOfWith(comparator:
Comparator<in R>, selector: (Int) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var minValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (comparator.compare(minValue,
v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.minOfWith(comparator:
Comparator<in R>, selector: (Long) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.minOfWith(comparator:
Comparator<in R>, selector: (Float) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.minOfWith(comparator:
Comparator<in R>, selector: (Double) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.minOfWith(comparator:
Comparator<in R>, selector: (Boolean) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
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Comparator<in R>, selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
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(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Array<out
T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n if (isEmpty()) return null\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ByteArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Byte) -> R): R? {\n if (isEmpty()) return
null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Short) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]

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function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
IntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Int) -> R): R? {\n if (isEmpty()) return
null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
LongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Long) -> R): R? {\n if (isEmpty()) return
null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
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function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
FloatArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Float) -> R): R? {\n if (isEmpty()) return
null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
DoubleArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Double) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
BooleanArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Boolean) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n if (isEmpty()) return
null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n
*\n@SinceKotlin("1.4")\npublic fun Array<out Double>.minOrNull(): Double? {\n if (isEmpty()) return null\n
var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n min = minOf(min, e)\n }\n return
min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is
`NaN` returns `NaN`.\n
*\n@SinceKotlin("1.4")\npublic fun Array<out Float>.minOrNull(): Float? {\n if
(isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n min = minOf(min,
e)\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n

```

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*^@SinceKotlin("1.4")\npublic fun <T : Comparable<T>> Array<out T>.minOrNull(): 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
*^@SinceKotlin("1.4")\npublic fun ByteArray.minOrNull(): 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
*^@SinceKotlin("1.4")\npublic fun
ShortArray.minOrNull(): 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 element or `null` if
there are no elements.\n
*^@SinceKotlin("1.4")\npublic fun IntArray.minOrNull(): 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
*^@SinceKotlin("1.4")\npublic fun LongArray.minOrNull(): 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
*^@SinceKotlin("1.4")\npublic fun FloatArray.minOrNull(): Float? {\n if (isEmpty()) return null\n var min =
this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n min = minOf(min, e)\n }\n return min\n}\n\n/**\n *
Returns the smallest element or `null` if there are no elements.\n
* \n * If any of elements is `NaN` returns `NaN`.\n
*^@SinceKotlin("1.4")\npublic fun DoubleArray.minOrNull(): Double? {\n if (isEmpty()) return null\n var
min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n min = minOf(min, e)\n }\n return
min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*^@SinceKotlin("1.4")\npublic fun CharArray.minOrNull(): Char? {\n if (isEmpty()) return null\n var min =
this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return
min\n}\n\n@Deprecated("Use minWithOrNull instead.",
ReplaceWith("this.minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun <T> Array<out T>.minWith(comparator: Comparator<in T>): T? {\n
return minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.",
ReplaceWith("this.minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun ByteArray.minWith(comparator: Comparator<in Byte>): Byte? {\n
return minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.",
ReplaceWith("this.minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun ShortArray.minWith(comparator: Comparator<in Short>): Short? {\n
return minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.",
ReplaceWith("this.minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun IntArray.minWith(comparator: Comparator<in Int>): Int? {\n return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.",
ReplaceWith("this.minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun LongArray.minWith(comparator: Comparator<in Long>): Long? {\n
return minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.",
ReplaceWith("this.minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun FloatArray.minWith(comparator: Comparator<in Float>): Float? {\n
return minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.",
ReplaceWith("this.minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun DoubleArray.minWith(comparator: Comparator<in Double>): Double?
{\n return minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.",
ReplaceWith("this.minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun BooleanArray.minWith(comparator: Comparator<in Boolean>):
Boolean? {\n return minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.",
ReplaceWith("this.minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince

```



```

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
true\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n\n
*/\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.onEach(action: (T) ->
Unit): Array<out T> {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n\n
*/\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.onEach(action: (Byte) ->
Unit): ByteArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n\n
*/\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.onEach(action: (Short) ->
Unit): ShortArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given
[action] on each element and returns the array itself afterwards.\n\n
*/\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.onEach(action: (Int) -> Unit):
IntArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on
each element and returns the array itself afterwards.\n\n
*/\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.onEach(action: (Long) ->
Unit): LongArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given

```

[action] on each element and returns the array itself afterwards.

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.onEach(action: (Float) -> Unit): FloatArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.onEach(action: (Double) -> Unit): DoubleArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.onEach(action: (Boolean) -> Unit): BooleanArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself afterwards.\n */\n\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.onEach(action: (Char) -> Unit): CharArray {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.onEachIndexed(action: (index: Int, T) -> Unit): Array<out T> {\n return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.onEachIndexed(action: (index: Int, Byte) -> Unit): ByteArray {\n return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.onEachIndexed(action: (index: Int, Short) -> Unit): ShortArray {\n return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.onEachIndexed(action: (index: Int, Int) -> Unit): IntArray {\n return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.onEachIndexed(action: (index: Int, Long) -> Unit): LongArray {\n return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.onEachIndexed(action: (index: Int, Float) -> Unit): FloatArray {\n return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.onEachIndexed(action: (index: Int, Double) -> Unit): DoubleArray {\n return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself afterwards.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the action on the element.\n */\n\n*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.onEachIndexed(action: (index: Int, Boolean) -> Unit): BooleanArray {\n return apply { forEachIndexed(action) }\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and returns the array itself
```

afterwards.

```

 @param [action] function that takes the index of an element and the element itself
 and performs the action on the element.
 @Since Kotlin("1.4")
 @kotlin.internal.InlineOnly
 public inline fun
 CharArray.onEachIndexed(action: (index: Int, Char) -> Unit): CharArray {
 return apply {
 forEachIndexed(action)
 }
 }

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.

```

 @param [operation] function that takes current accumulator value and an element
 and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduce
 public inline fun <S, T : S> Array<out T>.reduce(operation: (acc: S, T) -> S): S {
 if (isEmpty()) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator: S = this[0]
 for (index in 1..lastIndex) {
 accumulator = operation(accumulator, this[index])
 }
 return accumulator
 }

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.

```

 @param [operation] function that takes current accumulator value and an element
 and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduce
 public inline fun
 ByteArray.reduce(operation: (acc: Byte, Byte) -> Byte): Byte {
 if (isEmpty()) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = this[0]
 for (index in 1..lastIndex) {
 accumulator = operation(accumulator, this[index])
 }
 return accumulator
 }

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.

```

 @param [operation] function that takes current accumulator value and an element
 and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduce
 public inline fun
 ShortArray.reduce(operation: (acc: Short, Short) -> Short): Short {
 if (isEmpty()) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = this[0]
 for (index in 1..lastIndex) {
 accumulator = operation(accumulator, this[index])
 }
 return accumulator
 }

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.

```

 @param [operation] function that takes current accumulator value and an element
 and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduce
 public inline fun
 IntArray.reduce(operation: (acc: Int, Int) -> Int): Int {
 if (isEmpty()) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = this[0]
 for (index in 1..lastIndex) {
 accumulator = operation(accumulator, this[index])
 }
 return accumulator
 }

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.

```

 @param [operation] function that takes current accumulator value and an element
 and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduce
 public inline fun
 LongArray.reduce(operation: (acc: Long, Long) -> Long): Long {
 if (isEmpty()) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = this[0]
 for (index in 1..lastIndex) {
 accumulator = operation(accumulator, this[index])
 }
 return accumulator
 }

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.

```

 @param [operation] function that takes current accumulator value and an element
 and calculates the next accumulator value.
 @sample samples.collections.Collections.Aggregates.reduce
 public inline fun

```

```

FloatArray.reduce(operation: (acc: Float, Float) -> Float): Float {
 if (isEmpty()) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = this[0]
 for (index in 1..lastIndex) {
 accumulator = operation(accumulator, this[index])
 }
 return accumulator
}
Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
@param [operation] function that takes current accumulator value and an element and calculates the next accumulator value.
@sample samples.collections.Collections.Aggregates.reduce
public inline fun
DoubleArray.reduce(operation: (acc: Double, Double) -> Double): Double {
 if (isEmpty()) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = this[0]
 for (index in 1..lastIndex) {
 accumulator = operation(accumulator, this[index])
 }
 return accumulator
}
Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
@param [operation] function that takes current accumulator value and an element and calculates the next accumulator value.
@sample samples.collections.Collections.Aggregates.reduce
public inline fun
BooleanArray.reduce(operation: (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(accumulator, this[index])
 }
 return accumulator
}
Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.
Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
@param [operation] function that takes current accumulator value and an element and calculates the next accumulator value.
@sample samples.collections.Collections.Aggregates.reduce
public inline fun
CharArray.reduce(operation: (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(accumulator, this[index])
 }
 return accumulator
}
Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array.
Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.
@param [operation] function that takes the index of an element, current accumulator value and the element itself and calculates the next accumulator value.
@sample samples.collections.Collections.Aggregates.reduce
public inline fun <S, T : S> Array<out T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {
 if (isEmpty()) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator: S = this[0]
 for (index in 1..lastIndex) {
 accumulator = operation(index, accumulator, this[index])
 }
 return accumulator
}
Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array.
Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.
@param [operation] function that takes the index of an element, current accumulator value and the element itself and calculates the next accumulator value.
@sample samples.collections.Collections.Aggregates.reduce
public inline fun
ByteArray.reduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte {
 if (isEmpty()) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = this[0]
 for (index in 1..lastIndex) {
 accumulator = operation(index, accumulator, this[index])
 }
 return accumulator
}
Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array.
Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull]

```

instead. It returns `null` when its receiver is empty.

```

@sample samples.collections.Collections.Aggregates.reduce
public inline fun
ShortArray.reduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): Short {
 if (isEmpty()) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = this[0]
 for (index in
 1..lastIndex) {
 accumulator = operation(index, accumulator, this[index])
 }
 return
 accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.

```

@sample samples.collections.Collections.Aggregates.reduce
public inline fun
IntArray.reduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): Int {
 if (isEmpty()) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = this[0]
 for (index in
 1..lastIndex) {
 accumulator = operation(index, accumulator, this[index])
 }
 return
 accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.

```

@sample samples.collections.Collections.Aggregates.reduce
public inline fun
LongArray.reduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): Long {
 if (isEmpty()) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = this[0]
 for (index in
 1..lastIndex) {
 accumulator = operation(index, accumulator, this[index])
 }
 return
 accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.

```

@sample samples.collections.Collections.Aggregates.reduce
public inline fun
FloatArray.reduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): Float {
 if (isEmpty()) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = this[0]
 for (index in
 1..lastIndex) {
 accumulator = operation(index, accumulator, this[index])
 }
 return
 accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.

```

@sample samples.collections.Collections.Aggregates.reduce
public inline fun
DoubleArray.reduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): Double {
 if (isEmpty()) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = this[0]
 for (index in
 1..lastIndex) {
 accumulator = operation(index, accumulator, this[index])
 }
 return
 accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.

```

@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. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

```

@sample samples.collections.Collections.Aggregates.reduce

```

```

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 with its index in the original array. Returns `null` if the array is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceOrNull

```

@SinceKotlin("1.4")
public inline fun <S, T : S> Array<out T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {
 if (isEmpty())
 return null
 var accumulator: S = this[0]
 for (index in 1..lastIndex) {
 accumulator = operation(index, accumulator, this[index])
 }
 return accumulator
}

```

Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element with its index in the original array. Returns `null` if the array is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceOrNull

```

@SinceKotlin("1.4")
public inline fun ByteArray.reduceIndexedOrNull(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte? {
 if (isEmpty())
 return null
 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. Returns `null` if the array is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceOrNull

```

@SinceKotlin("1.4")
public inline fun ShortArray.reduceIndexedOrNull(operation: (index: Int, acc: Short, Short) -> Short): Short? {
 if (isEmpty())
 return null
 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. Returns `null` if the array is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceOrNull

```

@SinceKotlin("1.4")
public inline fun IntArray.reduceIndexedOrNull(operation: (index: Int, acc: Int, Int) -> Int): Int? {
 if (isEmpty())
 return null
 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. Returns `null` if the array is empty.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceOrNull

```

@SinceKotlin("1.4")
public inline fun LongArray.reduceIndexedOrNull(operation: (index: Int, acc: Long, Long) -> Long): Long? {
 if (isEmpty())
 return null
 var accumulator = this[0]
 for (index in

```

```

1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n } \n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n * \n * @SinceKotlin("1.4")\n\npublic inline fun
FloatArray.reduceIndexedOrNull(operation: (index: Int, acc: Float, Float) -> Float): Float? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index,
accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first
element and applying [operation] from left to right\n * to current accumulator value and each element with its index
in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the
index of an element,\n current accumulator value and the element itself,\n * and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n * \n * @SinceKotlin("1.4")\n\npublic inline fun DoubleArray.reduceIndexedOrNull(operation: (index: Int, acc:
Double, Double) -> Double): Double? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for
(index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator
value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n * \n * @SinceKotlin("1.4")\n\npublic inline fun
BooleanArray.reduceIndexedOrNull(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean? {\n if
(isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator =
operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting
with the first element and applying [operation] from left to right\n * to current accumulator value and each element
with its index in the original array.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value and the element itself,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n * \n * @SinceKotlin("1.4")\n\npublic inline fun CharArray.reduceIndexedOrNull(operation: (index: Int, acc: Char,
Char) -> Char): Char? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n * \n * @SinceKotlin("1.4")\n\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic inline fun <S, T : S>
Array<out T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n if (isEmpty())\n return null\n var
accumulator: S = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
 }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n *
\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n * \n * @SinceKotlin("1.4")\n\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic inline fun
ByteArray.reduceOrNull(operation: (acc: Byte, Byte) -> Byte): Byte? {\n if (isEmpty())\n return null\n var
accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
 }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n *
\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next

```

```

accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
ShortArray.reduceOrNull(operation: (acc: Short, Short) -> Short): Short? {\n if (isEmpty())\n return null\n
var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n *
\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
IntArray.reduceOrNull(operation: (acc: Int, Int) -> Int): Int? {\n if (isEmpty())\n return null\n var
accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n *
\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
LongArray.reduceOrNull(operation: (acc: Long, Long) -> Long): Long? {\n if (isEmpty())\n return null\n
var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n *
\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
FloatArray.reduceOrNull(operation: (acc: Float, Float) -> Float): Float? {\n if (isEmpty())\n return null\n var
accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n *
\n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
DoubleArray.reduceOrNull(operation: (acc: Double, Double) -> Double): Double? {\n if (isEmpty())\n return
null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator,
this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and
applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
BooleanArray.reduceOrNull(operation: (acc: Boolean, Boolean) -> Boolean): Boolean? {\n if (isEmpty())\n
return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator =
operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the
first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n *
Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and
an element,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharArray.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {\n if (isEmpty())\n return null\n var
accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n
}

```

```

}
return accumulator
}

Accumulates value starting with the last element and applying [operation]
from right to left to each element and current accumulator value.
Throws an exception if this array is empty. If the array can be empty in an
expected way, please use [reduceRightOrNull] instead. It returns `null`
when its receiver is empty.
@param [operation] function that takes an element and current accumulator
value, and calculates the next accumulator value.
@sample
samples.collections.Collections.Aggregates.reduceRight

public inline fun <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 the last element and applying [operation] from right to left
to each element and current accumulator value.
Throws an exception if this array is empty. If the array can be empty in an
expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.
@param [operation] function that takes an element and current accumulator value,
and calculates the next accumulator value.
@sample
samples.collections.Collections.Aggregates.reduceRight

public inline fun 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 the last element and applying [operation] from right to
left to each element and current accumulator value.
Throws an exception if this array is empty. If the array can be empty in an
expected way, please use [reduceRightOrNull] instead. It returns `null` when its
receiver is empty.
@param [operation] function that takes an element and current accumulator value,
and calculates the next accumulator value.
@sample
samples.collections.Collections.Aggregates.reduceRight

public inline fun 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 the last element and applying [operation] from right to left
to each element and current accumulator value.
Throws an exception if this array is empty. If the array can be empty in an
expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.
@param [operation] function that takes an element and current accumulator value,
and calculates the next accumulator value.
@sample
samples.collections.Collections.Aggregates.reduceRight

public inline fun IntArray.reduceRight(operation: (Int, acc: Int) -> Int): Int {
 var index = lastIndex
 if (index < 0) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

Accumulates value starting with the last element and applying [operation] from right to left
to each element and current accumulator value.
Throws an exception if this array is empty. If the array can be empty in an
expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.
@param [operation] function that takes an element and current accumulator value,
and calculates the next accumulator value.
@sample
samples.collections.Collections.Aggregates.reduceRight

public inline fun LongArray.reduceRight(operation: (Long, acc: Long) -> Long): Long {
 var index = lastIndex
 if (index <
 0) throw UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return
 accumulator
}

Accumulates value starting with the last element and applying [operation] from right to
left to each element and current accumulator value.
Throws an exception if this array is empty. If the array can be empty in an
expected way, please use [reduceRightOrNull] instead. It returns `null` when its
receiver is empty.
@param [operation] function that takes an element and current accumulator value,
and calculates the next accumulator value.
@sample
samples.collections.Collections.Aggregates.reduceRight

public inline fun FloatArray.reduceRight(operation:

```

```

(Float, acc: Float) -> Float): Float {
 var index = lastIndex
 if (index < 0) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while
 (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

Accumulates value starting with the last element and applying [operation] from right to left
to each element and current accumulator value.

Throws an exception if this array is empty. If the array can be empty in an
expected way, please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes an element and current accumulator value,
and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.reduceRight

public inline
fun DoubleArray.reduceRight(operation: (Double, acc: Double) -> Double): Double {
 var index = lastIndex
 if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator =
 get(index--)
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return
 accumulator
}

Accumulates value starting with the last element and applying [operation] from right to
left to each element and current accumulator value.

Throws an exception if this array is empty. If the
array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null`
when its receiver is empty.

@param [operation] function that takes an element and current accumulator value,
and calculates the next accumulator value.

@sample
samples.collections.Collections.Aggregates.reduceRight

public inline fun
BooleanArray.reduceRight(operation: (Boolean, acc: Boolean) -> Boolean): Boolean {
 var index = lastIndex
 if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator =
 get(index--)
 while (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return
 accumulator
}

Accumulates value starting with the last element and applying [operation] from right to
left to each element and current accumulator value.

Throws an exception if this array is empty. If the
array can be empty in an expected way, please use [reduceRightOrNull] instead. It returns `null`
when its receiver is empty.

@param [operation] function that takes an element and current accumulator value,
and calculates the next accumulator value.

@sample
samples.collections.Collections.Aggregates.reduceRight

public inline fun CharArray.reduceRight(operation:
(Char, acc: Char) -> Char): Char {
 var index = lastIndex
 if (index < 0) throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = get(index--)
 while
 (index >= 0) {
 accumulator = operation(get(index--), accumulator)
 }
 return accumulator
}

Accumulates value starting with the last element and applying [operation] from right to left
to each element with its index in the original array and current accumulator value.

Throws an exception if this array is empty. If
the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It
returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, the element
itself and current accumulator value,
and calculates the next accumulator value.

@sample
samples.collections.Collections.Aggregates.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 the last element and applying [operation] from right to
left to each element with its index in the original array and current accumulator value.

Throws an
exception if this array is empty. If the array can be empty in an expected way, please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation]
function that takes the index of an element, the element itself and current accumulator value,
and calculates the
next accumulator value.

@sample samples.collections.Collections.Aggregates.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 the last

```

element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@sample

```
samples.collections.Collections.Aggregates.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 the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@sample

```
samples.collections.Collections.Aggregates.reduceRight
```

public inline fun IntArray.reduceRightIndexed(operation: (index: Int, 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(index, get(index), accumulator)  
--index  
}  
return accumulator  
}

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@sample

```
samples.collections.Collections.Aggregates.reduceRight
```

public inline fun LongArray.reduceRightIndexed(operation: (index: Int, 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(index, get(index), accumulator)  
--index  
}  
return accumulator  
}

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@sample

```
samples.collections.Collections.Aggregates.reduceRight
```

public inline fun FloatArray.reduceRightIndexed(operation: (index: Int, 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(index, get(index), accumulator)  
--index  
}  
return accumulator  
}

Accumulates value starting with the last element and applying [operation] from right to left to each element with its index in the original array and current accumulator value. Throws an exception if this array is empty. If the array can be empty in an expected way, please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.

@param [operation] function that takes the index of an element, the element itself and current accumulator value, and calculates the next accumulator value.

@sample

```
samples.collections.Collections.Aggregates.reduceRight
```

public inline fun DoubleArray.reduceRightIndexed(operation: (index: Int, Double, acc: Double) -> Double): Double {  
var index = lastIndex  
if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")  
var accumulator = get(index--)  
while (index >= 0) {  
accumulator = operation(index, get(index), accumulator)  
--index  
}  
return accumulator  
}

```

accumulator)\n --index\n } \n return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun
BooleanArray.reduceRightIndexed(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean {\n var
index = lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun
CharArray.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n var index = lastIndex\n
if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator =
get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n
 }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation]
from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n *
Returns `null` if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the
element itself and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun <S,
T : S> Array<out T>.reduceRightIndexedOrNull(operation: (index: Int, T, acc: S) -> S): S? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator: S = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun
ByteArray.reduceRightIndexedOrNull(operation: (index: Int, 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(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *\n@SinceKotlin("1.4")\npublic inline fun
ShortArray.reduceRightIndexedOrNull(operation: (index: Int, 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(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample

```

```

samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\n@SinceKotlin(\\"1.4\\")\npublic inline fun
IntArray.reduceRightIndexedOrNull(operation: (index: Int, 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(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates
value starting with the last element and applying [operation] from right to left\n * to each element with its index in
the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param
[operation] function that takes the index of an element, the element itself and current accumulator value,\n * and
calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\n@SinceKotlin(\\"1.4\\")\npublic inline fun
LongArray.reduceRightIndexedOrNull(operation: (index: Int, 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(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\n@SinceKotlin(\\"1.4\\")\npublic inline fun
FloatArray.reduceRightIndexedOrNull(operation: (index: Int, 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(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\n@SinceKotlin(\\"1.4\\")\npublic inline fun
DoubleArray.reduceRightIndexedOrNull(operation: (index: Int, 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(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\n@SinceKotlin(\\"1.4\\")\npublic inline fun
BooleanArray.reduceRightIndexedOrNull(operation: (index: Int, 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(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\n@SinceKotlin(\\"1.4\\")\npublic inline fun
CharArray.reduceRightIndexedOrNull(operation: (index: Int, Char, acc: Char) -> Char): Char? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n
accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and
current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that
takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n

```

```

*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
Array<out T>.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--),
accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and
applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\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 the
last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\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 the
last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\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 the last element and
applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns `null` if
the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
LongArray.reduceRightOrNull(operation: (Long, acc: Long) -> Long): Long? {\n var index = lastIndex\n if
(index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator =
operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the
last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
FloatArray.reduceRightOrNull(operation: (Float, acc: Float) -> Float): Float? {\n var index = lastIndex\n if
(index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator =
operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the
last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Returns `null` if the array is empty.\n * \n * @param [operation] function that takes an element and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n

```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
DoubleArray.reduceRightOrNull(operation: (Double, acc: Double) -> Double): Double? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value
starting with the last element and applying [operation] from right to left\n * to each element and current accumulator
value.\n * Returns `null` if the array is empty.\n * @param [operation] function that takes an element and
current accumulator value,\n * and calculates the next accumulator value.\n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
BooleanArray.reduceRightOrNull(operation: (Boolean, acc: Boolean) -> Boolean): Boolean? {\n var index =
lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value
starting with the last element and applying [operation] from right to left\n * to each element and current accumulator
value.\n * Returns `null` if the array is empty.\n * @param [operation] function that takes an element and
current accumulator value,\n * and calculates the next accumulator value.\n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharArray.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {\n var index = lastIndex\n if (index
< 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator =
operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each element and current
accumulator value that starts with [initial] value.\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 * @param [operation]
function that takes current accumulator value and an element, and calculates the next accumulator value.\n * @sample samples.collections.Collections.Aggregates.runningFold\n
```

```
*\n@SinceKotlin("1.4")\npublic inline fun
<T, R> Array<out T>.runningFold(initial: R, operation: (acc: R, T) -> R): List<R> {\n if (isEmpty()) return
listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\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 * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * @sample
samples.collections.Collections.Aggregates.runningFold\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.runningFold(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/**\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 * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * @sample samples.collections.Collections.Aggregates.runningFold\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.runningFold(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/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
```

and current accumulator value that starts with [initial] value. \n \* \n \* Note that `acc` value passed to [operation] function should not be mutated; \n \* otherwise it would affect the previous value in resulting list. \n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value. \n \* \n \* @sample samples.collections.Collections.Aggregates.runningFold

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.runningFold(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/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.runningFold(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/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.runningFold(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.runningFold
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.runningFold(initial: R, operation: (acc: R, Double) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold
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```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.runningFold(initial: R, operation: (acc: R, Boolean) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n/**\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
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accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.runningFold(initial: R,
operation: (acc: R, Char) -> R): List<R> {\n if (isEmpty()) return listOf(initial)\n val result = ArrayList<R>(size
+ 1).apply { add(initial) }\n var accumulator = initial\n for (element in this) {\n accumulator =
operation(accumulator, element)\n result.add(accumulator)\n }\n return result\n}\n\n**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element,
its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc`
value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n *
and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Array<out T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n if (isEmpty())
return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n
for (index in indices) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n if (isEmpty())
return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n
for (index in indices) {\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.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ShortArray.runningFoldIndexed(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.runningFold\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <R>
IntArray.runningFoldIndexed(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

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starts with the first element of this array.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and the element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningReduce\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>\nArray<out T>.runningReduce(operation: (acc: S, T) -> S): List<S> {\n if (isEmpty()) return emptyList()\n var accumulator: S = this[0]\n val result = ArrayList<S>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
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```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.runningReduce(operation:\n(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 =\n operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
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```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.runningReduce(operation:\n(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 =\n operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
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```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.runningReduce(operation: (acc:\nInt, 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 =\n operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
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```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.runningReduce(operation:\n(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 =\n operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
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```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.runningReduce(operation:\n(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 =\n operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
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containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with the first element of this array.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.runningReduce\n

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.runningReduce(operation:
(acc: Double, Double) -> Double): List<Double> {\n if (isEmpty()) return emptyList()\n var accumulator =
this[0]\n val result = ArrayList<Double>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.runningReduce(operation:
(acc: Boolean, Boolean) -> Boolean): List<Boolean> {\n if (isEmpty()) return emptyList()\n var accumulator =
this[0]\n val result = ArrayList<Boolean>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with the first element of this array.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
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```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.runningReduce(operation:
(acc: Char, Char) -> Char): List<Char> {\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val
result = ArrayList<Char>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator =
operation(accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element,
its index in the original array and current accumulator value that starts with the first element of this array.\n * \n *
Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <S, T :
S> Array<out T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): List<S> {\n if (isEmpty()) return
emptyList()\n var accumulator: S = this[0]\n val result = ArrayList<S>(size).apply { add(accumulator) }\n for
(index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
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current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
```

```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.runningReduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): List<Byte> {\n if (isEmpty())
return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Byte>(size).apply { add(accumulator)
}\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
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```
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
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ShortArray.runningReduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): List<Short> {\n if
(isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Short>(size).apply {
add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n
 result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.runningReduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): List<Int> {\n if (isEmpty()) return
emptyList()\n var accumulator = this[0]\n val result = ArrayList<Int>(size).apply { add(accumulator) }\n for
(index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.runningReduceIndexed(operation: (index: Int, acc: Long, Long) -> Long): List<Long> {\n if
(isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Long>(size).apply {
add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.runningReduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): List<Float> {\n if
(isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Float>(size).apply {
add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.runningReduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): List<Double> {\n if
(isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Double>(size).apply {
add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.runningReduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): List<Boolean>
{\n if (isEmpty()) return emptyList()\n var accumulator = this[0]\n val result =
ArrayList<Boolean>(size).apply { add(accumulator) }\n for (index in 1 until size) {\n accumulator =

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operation(index, accumulator, this[index])\n result.add(accumulator)\n } \n return result\n}\n\n/**\n *
Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to
each element, its index in the original array and current accumulator value that starts with the first element of this
array.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and
the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.runningReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {\n if (isEmpty())
return emptyList()\n var accumulator = this[0]\n val result = ArrayList<Char>(size).apply { add(accumulator)
}\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current
accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R>
Array<out T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {\n return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]
from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that
`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ByteArray.scan(initial: R, operation: (acc: R, Byte) -> R): List<R> {\n return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]
from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that
`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> ShortArray.scan(initial: R, operation: (acc: R, Short) -> R): List<R> {\n return
runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by
applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial]
value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would
affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value
and an element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> IntArray.scan(initial: R, operation: (acc: R, Int) -> R): List<R> {\n return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]
from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that
`acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes current @accumulator value and an element, and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <R> LongArray.scan(initial: R, operation: (acc: R, Long) -> R): List<R> {\n return
runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by

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applying [operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.scan(initial: R, operation: (acc: R, Float) -> R): List<R> {\n return\n runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by\n * applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial]\n * value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value\n * and an element, and calculates the next accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.scan\n */\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.scan(initial: R, operation: (acc: R, Double) -> R): List<R> {\n return\n runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by\n * applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial]\n * value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value\n * and an element, and calculates the next accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.scan\n */\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.scan(initial: R, operation: (acc: R, Boolean) -> R): List<R> {\n return\n runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by\n * applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial]\n * value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value\n * and an element, and calculates the next accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.scan\n */\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharArray.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {\n return\n runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]\n * from left to right\n * to each element, its index in the original array and current accumulator value that starts with\n * [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\n * element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.scan\n */\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R>\nArray<out T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n return\n runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values\n * generated by applying [operation] from left to right\n * to each element, its index in the original array and current\n * accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should\n * not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]\n * function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the\n * next accumulator value.\n * \n * @sample\n * samples.collections.Collections.Aggregates.scan\n */\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ByteArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): List<R> {\n return\n runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values\n
```

generated by applying [operation] from left to right\n \* to each element, its index in the original array and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element itself, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ShortArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): List<R> {\n return\n runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values\n * generated by applying [operation] from left to right\n * to each element, its index in the original array and current\n * accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should\n * not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]\n * function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the\n * next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> IntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): List<R> {\n return\n runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values\n * generated by applying [operation] from left to right\n * to each element, its index in the original array and current\n * accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should\n * not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]\n * function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the\n * next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> LongArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): List<R> {\n return\n runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values\n * generated by applying [operation] from left to right\n * to each element, its index in the original array and current\n * accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should\n * not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]\n * function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the\n * next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> FloatArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): List<R> {\n return\n runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values\n * generated by applying [operation] from left to right\n * to each element, its index in the original array and current\n * accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should\n * not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]\n * function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the\n * next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> DoubleArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): List<R> {\n return\n runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values\n * generated by applying [operation] from left to right\n * to each element, its index in the original array and current\n * accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should\n * not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]\n * function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the\n * next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> BooleanArray.scanIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): List<R> {\n return\n runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values\n
```





```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun\nIntArray.sumOf(selector: (Int) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in this)\n {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by\n [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun\nLongArray.sumOf(selector: (Long) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in\n this)\n {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by\n [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun\nFloatArray.sumOf(selector: (Float) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in\n this)\n {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by\n [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun\nDoubleArray.sumOf(selector: (Double) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element\n in this)\n {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced\n by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun\nBooleanArray.sumOf(selector: (Boolean) -> Double): Double {\n var sum: Double = 0.toDouble()\n for\n (element in this)\n {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values\n produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun\nCharArray.sumOf(selector: (Char) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in\n this)\n {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by\n [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun <T>\nArray<out T>.sumOf(selector: (T) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this)\n {\n sum +=\n selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun\nByteArray.sumOf(selector: (Byte) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this)\n {\n sum +=\n selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun\nShortArray.sumOf(selector: (Short) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this)\n {\n sum +=\n selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun\nIntArray.sumOf(selector: (Int) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this)\n {\n sum +=\n
```

```

selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.sumOf(selector: (Long) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum +=
selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.sumOf(selector: (Float) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum +=
selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.sumOf(selector: (Double) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n
sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.sumOf(selector: (Boolean) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n
sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.sumOf(selector: (Char) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum +=
selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Array<out T>.sumOf(selector: (T) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this)
{\n sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.sumOf(selector: (Byte) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n
sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.sumOf(selector: (Short) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n
sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.sumOf(selector: (Int) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n
sum += selector(element)\n } \n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

```

```

ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.sumOf(selector: (Long) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n
 sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
FloatArray.sumOf(selector: (Float) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n
 sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
DoubleArray.sumOf(selector: (Double) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this)
{\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
BooleanArray.sumOf(selector: (Boolean) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this)
{\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
CharArray.sumOf(selector: (Char) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n
 sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> UInt): UInt {\n
var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> UInt): UInt {\n
var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n *
Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short) -> UInt): UInt {\n
var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n *
Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> UInt): UInt {\n
var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n *
Returns the sum of all values produced by [selector] function applied to each element in the array.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("\sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> UInt): UInt {\n
var

```

```

sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n */\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n */\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sumOf(selector: (Double) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n */\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n */\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n */\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.sumOf(selector: (T) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n */\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sumOf(selector: (Byte) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n */\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sumOf(selector: (Short) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n */\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sumOf(selector: (Int) -> ULong): ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n *\n */

```

```

*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sumOf(selector: (Long) -> ULong): ULong
{\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n

```

```

*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sumOf(selector: (Float) -> ULong): ULong
{\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
array.\n

```

```

*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sumOf(selector: (Double) -> ULong):
ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n
return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in
the array.\n

```

```

*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.sumOf(selector: (Boolean) -> ULong):
ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n
return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in
the array.\n

```

```

*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sumOf(selector: (Char) -> ULong): ULong
{\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return
sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an
[IllegalArgumentException] if there are any `null` elements.\n\npublic fun <T : Any>

```

```

Array<T?>.requireNonNulls(): Array<T> {\n for (element in this) {\n if (element == null) {\n throw
IllegalArgumentException("null element found in $this.")\n }\n }\n

```

```

@Suppress("UNCHECKED_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 * \n * @sample

```

```

samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\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 * \n * @sample

```

```

samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\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 return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
@sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n\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 return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\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 return Pair(first, second)\n}\n\n/**\n * Splits the original
array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while
second list contains elements for which [predicate] yielded `false`.\n * \n * @sample
samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\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 return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\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 return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\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 return Pair(first,
second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which
[predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n * \n *
@sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\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 return
Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains
elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate]
yielded `false`.\n * \n * @sample samples.collections.Arrays.Transformations.partitionArrayOfPrimitives\n */\npublic
inline fun CharArray.partition(predicate: (Char) -> Boolean): Pair<List<Char>, List<Char>> {\n val
first = ArrayList<Char>()\n val second = ArrayList<Char>()\n for (element in this) {\n if
(predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return
Pair(first, second)\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other]
array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n */\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
}\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> ShortArray.zip(other: Array<out
R>): List<Pair<Short, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n * \npublic infix fun <R>
IntArray.zip(other: Array<out R>): List<Pair<Int, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n *
Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n * \npublic infix fun <R> LongArray.zip(other: Array<out
R>): List<Pair<Long, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n * \npublic infix fun <R>
FloatArray.zip(other: Array<out R>): List<Pair<Float, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n *
Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The
returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n * \npublic infix fun <R> DoubleArray.zip(other: Array<out
R>): List<Pair<Double, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the
shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n * \npublic infix fun <R>
BooleanArray.zip(other: Array<out R>): List<Pair<Boolean, R>> {\n return zip(other) { t1, t2 -> t1 to t2
}\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same
index.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n * \npublic infix fun <R> CharArray.zip(other: Array<out R>):
List<Pair<Char, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the
elements of `this` array and the [other] array with the same index\n * using the provided [transform] function
applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n * \npublic inline fun <T, R, V> Array<out
T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {\n val size = minOf(size, other.size)\n val
list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same
index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length
of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
 * \npublic inline fun <R, V> ByteArray.zip(other: Array<out R>, transform: (a: Byte, b: R) -> V): List<V> {\n val
size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n
list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements
of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each
pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n * \npublic inline fun <R, V>
ShortArray.zip(other: Array<out R>, transform: (a: Short, b: R) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n
}\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n * \npublic inline fun <R, V>
IntArray.zip(other: Array<out R>, transform: (a: Int, b: R) -> V): List<V> {\n val size = minOf(size, other.size)\n
val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return
list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same
index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length
of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n

```

```

*public inline fun <R, V> LongArray.zip(other: Array<out R>, transform: (a: Long, b: R) -> V): List<V> {
 val size = minOf(size, other.size)
 val list = ArrayList<V>(size)
 for (i in 0 until size) {
 list.add(transform(this[i], other[i]))
 }
 return list
}

```

Returns a list of values built from the elements of `this` array and the [other] array with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest collection.

@sample

```

samples.collections.Iterables.Operations.zipIterableWithTransform

```

```

*public inline fun <R, V>
FloatArray.zip(other: Array<out R>, transform: (a: Float, b: R) -> V): List<V> {
 val size = minOf(size, other.size)
 val list = ArrayList<V>(size)
 for (i in 0 until size) {
 list.add(transform(this[i], other[i]))
 }
 return list
}

```

Returns a list of values built from the elements of `this` array and the [other] array with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest collection.

@sample

```

samples.collections.Iterables.Operations.zipIterableWithTransform

```

```

*public inline fun <R, V>
DoubleArray.zip(other: Array<out R>, transform: (a: Double, b: R) -> V): List<V> {
 val size = minOf(size, other.size)
 val list = ArrayList<V>(size)
 for (i in 0 until size) {
 list.add(transform(this[i], other[i]))
 }
 return list
}

```

Returns a list of values built from the elements of `this` array and the [other] array with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest collection.

@sample

```

samples.collections.Iterables.Operations.zipIterableWithTransform

```

```

*public inline fun <R, V>
BooleanArray.zip(other: Array<out R>, transform: (a: Boolean, b: R) -> V): List<V> {
 val size = minOf(size, other.size)
 val list = ArrayList<V>(size)
 for (i in 0 until size) {
 list.add(transform(this[i], other[i]))
 }
 return list
}

```

Returns a list of values built from the elements of `this` array and the [other] array with the same index using the provided [transform] function applied to each pair of elements. The returned list has length of the shortest collection.

@sample

```

samples.collections.Iterables.Operations.zipIterableWithTransform

```

```

*public inline fun <R, V>
CharArray.zip(other: Array<out R>, transform: (a: Char, b: R) -> V): List<V> {
 val size = minOf(size, other.size)
 val list = ArrayList<V>(size)
 for (i in 0 until size) {
 list.add(transform(this[i], other[i]))
 }
 return list
}

```

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index. The returned list has length of the shortest collection.

@sample

```

samples.collections.Iterables.Operations.zipIterable

```

```

*public infix fun <T, R> Array<out T>.zip(other:
Iterable<R>): List<Pair<T, R>> {
 return zip(other) { t1, t2 -> t1 to t2 }
}

```

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index. The returned list has length of the shortest collection.

@sample

```

samples.collections.Iterables.Operations.zipIterable

```

```

*public infix fun <R>
ByteArray.zip(other: Iterable<R>): List<Pair<Byte, R>> {
 return zip(other) { t1, t2 -> t1 to t2 }
}

```

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index. The returned list has length of the shortest collection.

@sample

```

samples.collections.Iterables.Operations.zipIterable

```

```

*public infix fun <R>
ShortArray.zip(other: Iterable<R>): List<Pair<Short, R>> {
 return zip(other) { t1, t2 -> t1 to t2 }
}

```

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index. The returned list has length of the shortest collection.

@sample

```

samples.collections.Iterables.Operations.zipIterable

```

```

*public infix fun <R>
IntArray.zip(other: Iterable<R>): List<Pair<Int, R>> {
 return zip(other) { t1, t2 -> t1 to t2 }
}

```

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index. The returned list has length of the shortest collection.

@sample

```

samples.collections.Iterables.Operations.zipIterable

```

```

*public infix fun <R>
LongArray.zip(other: Iterable<R>): List<Pair<Long, R>> {
 return zip(other) { t1, t2 -> t1 to t2 }
}

```

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index. The returned list has length of the shortest collection.

@sample

```

samples.collections.Iterables.Operations.zipIterable

```

```

*public infix fun <R>
FloatArray.zip(other: Iterable<R>): List<Pair<Float, R>> {
 return zip(other) { t1, t2 -> t1 to t2 }
}

```

Returns a list of pairs built from the elements of `this` collection and [other] array with the same index. The

```

returned list has length of the shortest collection.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterable\n * \n public 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 * \n public 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 * \n public 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 * \n public 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 * \n public 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 * \n public
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 * \n public 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 * \n public 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 * \n public 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

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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 \* 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 \* 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 \* 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 \* 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 \* 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 \* 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 \* 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 \* 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

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(which defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * \npublic fun
<T, A : Appendable> Array<out T>.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix: CharSequence = "\"",
postfix: CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? =
null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1)
buffer.append(separator)\n if (limit < 0 || count <= limit) {\n buffer.appendElement(element, transform)\n
 } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n
return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * \npublic fun <A :
Appendable> ByteArray.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix: CharSequence = "\"", postfix:
CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((Byte) -> CharSequence)? =
null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1)
buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n
}\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * \npublic fun <A :
Appendable> ShortArray.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix: CharSequence = "\"", postfix:
CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((Short) -> CharSequence)? =
null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1)
buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n
}\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * \npublic fun <A :
Appendable> IntArray.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix: CharSequence = "\"", postfix:
CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((Int) -> CharSequence)? = null):
A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1)
buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n
}\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * \npublic fun <A :
Appendable> LongArray.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix: CharSequence = "\"", postfix:
CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((Long) -> CharSequence)? =
null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1)
buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n
}\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of

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[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * /\npublic fun <A :
Appendable> FloatArray.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix: CharSequence = "\"\", postfix:
CharSequence = "\"\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Float) -> CharSequence)? =
null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1)
buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\nbuffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * /\npublic fun <A :
Appendable> DoubleArray.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix: CharSequence = "\"\", postfix:
CharSequence = "\"\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Double) -> CharSequence)? =
null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1)
buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\nbuffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * /\npublic fun <A :
Appendable> BooleanArray.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix: CharSequence = "\"\",
postfix: CharSequence = "\"\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Boolean) ->
CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count
> 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\nbuffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return
buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n * /\npublic fun <A :
Appendable> CharArray.joinTo(buffer: A, separator: CharSequence = "\", \"", prefix: CharSequence = "\"\", postfix:
CharSequence = "\"\", limit: Int = -1, truncated: CharSequence = "...\", transform: ((Char) -> CharSequence)? =
null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1)
buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\nbuffer.append(transform(element))\n else\n buffer.append(element)\n } else break\n }\n if
(limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if
supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only
the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to "...").\n * \n *
@sample samples.collections.Collections.Transformations.joinToString\n * /\npublic fun <T> Array<out
T>.joinToString(separator: CharSequence = "\", \"", prefix: CharSequence = "\"\", postfix: CharSequence = "\"\", limit:
Int = -1, truncated: CharSequence = "...\", transform: ((T) -> CharSequence)? = null): String {\n return
joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a
string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n
* If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first
[limit]\n * elements will be appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample

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samples.collections.Collections.Transformations.joinToString\n *\npublic fun ByteArray.joinToString(separator:
CharSequence = "\", \"", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated:
CharSequence = \"...\", transform: ((Byte) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be
appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n *\npublic fun ShortArray.joinToString(separator:
CharSequence = "\", \"", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated:
CharSequence = \"...\", transform: ((Short) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be
appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n *\npublic fun IntArray.joinToString(separator:
CharSequence = "\", \"", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated:
CharSequence = \"...\", transform: ((Int) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be
appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n *\npublic fun LongArray.joinToString(separator:
CharSequence = "\", \"", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated:
CharSequence = \"...\", transform: ((Long) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be
appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n *\npublic fun FloatArray.joinToString(separator:
CharSequence = "\", \"", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated:
CharSequence = \"...\", transform: ((Float) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be
appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n *\npublic fun DoubleArray.joinToString(separator:
CharSequence = "\", \"", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated:
CharSequence = \"...\", transform: ((Double) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements
separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be
huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be
appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n *\npublic fun
BooleanArray.joinToString(separator: CharSequence = "\", \"", prefix: CharSequence = \"\", postfix: CharSequence =
\"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Boolean) -> CharSequence)? = null): String {\n
return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates
a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n
* If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first

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[limit]\n * elements will be appended, followed by the [truncated] string (which defaults to "...").\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n * \n\npublic fun CharArray.joinToString(separator:
CharSequence = ", ", prefix: CharSequence = "\n", postfix: CharSequence = "\n", limit: Int = -1, truncated:
CharSequence = "...", transform: ((Char) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(),
separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates an [Iterable] instance that
wraps the original array returning its elements when being iterated.\n * \n\npublic fun <T> Array<out T>.asIterable():
Iterable<T> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an
[Iterable] instance that wraps the original array returning its elements when being iterated.\n * \n\npublic fun
ByteArray.asIterable(): Iterable<Byte> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator()
}\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being
iterated.\n * \n\npublic fun ShortArray.asIterable(): Iterable<Short> {\n if (isEmpty()) return emptyList()\n return
Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its
elements when being iterated.\n * \n\npublic fun IntArray.asIterable(): Iterable<Int> {\n if (isEmpty()) return
emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original
array returning its elements when being iterated.\n * \n\npublic fun LongArray.asIterable(): Iterable<Long> {\n if
(isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that
wraps the original array returning its elements when being iterated.\n * \n\npublic fun FloatArray.asIterable():
Iterable<Float> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an
[Iterable] instance that wraps the original array returning its elements when being iterated.\n * \n\npublic fun
DoubleArray.asIterable(): Iterable<Double> {\n if (isEmpty()) return emptyList()\n return Iterable {
this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when
being iterated.\n * \n\npublic fun BooleanArray.asIterable(): Iterable<Boolean> {\n if (isEmpty()) return
emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original
array returning its elements when being iterated.\n * \n\npublic fun CharArray.asIterable(): Iterable<Char> {\n if
(isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that
wraps the original array returning its elements when being iterated.\n * \n * \n * @sample
samples.collections.Sequences.Building.sequenceFromArray\n * \n\npublic fun <T> Array<out T>.asSequence():
Sequence<T> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n * \n\npublic fun ByteArray.asSequence():
Sequence<Byte> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n * \n\npublic fun ShortArray.asSequence():
Sequence<Short> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n * \n\npublic fun IntArray.asSequence():
Sequence<Int> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n * \n\npublic fun LongArray.asSequence():
Sequence<Long> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n * \n\npublic fun FloatArray.asSequence():
Sequence<Float> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n * \n\npublic fun DoubleArray.asSequence():
Sequence<Double> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n *
Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * \n *
@sample samples.collections.Sequences.Building.sequenceFromArray\n * \n\npublic fun

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BooleanArray.asSequence(): Sequence<Boolean> {\n if (isEmpty()) return emptySequence()\n return Sequence
{ this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements
when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic
fun CharArray.asSequence(): Sequence<Char> {\n if (isEmpty()) return emptySequence()\n return Sequence {
this.iterator() }\n}\n\n/**\n * Returns an average value of elements in the array.\n
*\n * @kotlin.jvm.JvmName("averageOfByte")\n */\npublic fun Array<out Byte>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return
if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*\n * @kotlin.jvm.JvmName("averageOfShort")\n */\npublic fun Array<out Short>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return
if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*\n * @kotlin.jvm.JvmName("averageOfInt")\n */\npublic fun Array<out Int>.average(): Double {\n var sum: Double
= 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count
== 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*\n * @kotlin.jvm.JvmName("averageOfLong")\n */\npublic fun Array<out Long>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return
if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*\n * @kotlin.jvm.JvmName("averageOfFloat")\n */\npublic fun Array<out Float>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return
if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*\n * @kotlin.jvm.JvmName("averageOfDouble")\n */\npublic fun Array<out Double>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return
if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n
*\n */\npublic fun ByteArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in
this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun ShortArray.average():
Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n
++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of
elements in the array.\n */\npublic fun IntArray.average(): Double {\n var sum: Double = 0.0\n var count: Int =
0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else
sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun LongArray.average():
Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n
++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of
elements in the array.\n */\npublic fun FloatArray.average(): Double {\n var sum: Double = 0.0\n var count: Int
= 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN
else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun
DoubleArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n
sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
the sum of all elements in the array.\n */\n @kotlin.jvm.JvmName("sumOfByte")\n */\npublic fun Array<out
Byte>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return
sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n @kotlin.jvm.JvmName("sumOfShort")\n */\npublic
fun Array<out Short>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n
return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n @kotlin.jvm.JvmName("sumOfInt")\n */\npublic
fun Array<out Int>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n
return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n @kotlin.jvm.JvmName("sumOfLong")\n */\npublic
fun Array<out Long>.sum(): Long {\n var sum: Long = 0L\n for (element in this) {\n sum += element\n }\n
return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n @kotlin.jvm.JvmName("sumOfFloat")\n */\npublic
fun Array<out Float>.sum(): Float

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{\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 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n\n@\n@file:kotlin.jvm.JvmMultifileClass\n@\n@file:kotlin.jvm.JvmName("RangesKt")\n\npackage kotlin.ranges\n\n/\n/\n NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n/\n See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n/\n\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 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.code, last.code + 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("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\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("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\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("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharRange.randomOrNull(): Char? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a

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random element from this range using the specified source of randomness, or `null` if this range is empty.

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*\/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic fun
IntRange.randomOrNull(random: Random): Int? {n if (isEmpty())n return nulln 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("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic fun
LongRange.randomOrNull(random: Random): Long? {n if (isEmpty())n return nulln 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("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic fun
CharRange.randomOrNull(random: Random): Char? {n if (isEmpty())n return nulln return
random.nextInt(first.code, last.code + 1).toChar()n}n/n/**n * Returns `true` if this range contains the specified
[element].n * n * Always returns `false` if the [element] is `null`.n
*\/n@SinceKotlin("1.3")n@kotlin.internal.InlineOnlynpublic 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.InlineOnlynpublic 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.InlineOnlynpublic 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@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince =
"1.5")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@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince =
"1.5")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@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4",
hiddenSince = "1.5")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@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince
= "1.5")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

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and is going to be removed.}")@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince = "1.5")@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.}")@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince  
 = "1.5")@kotlin.jvm.JvmName("shortRangeContains")\npublic operator fun  
 ClosedRange<Short>.contains(value: Double): Boolean {\n return value.toShortExactOrNull().let { if (it != null)  
 contains(it) else false }\n}\n\n/\*\*\n \* Checks if the specified [value] belongs to this range.\n  
 \*\n@kotlin.jvm.JvmName("floatRangeContains")\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.}")@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4",  
 hiddenSince = "1.5")@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.}")@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince  
 = "1.5")@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.}")@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince  
 = "1.5")@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.}")@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince  
 = "1.5")@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.}")@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince =  
 "1.5")@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.}")@DeprecatedSinceKotlin(warningSince = "1.3", errorSince = "1.4", hiddenSince =

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\"1.5\")\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@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince =
\"1.5\")\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.\n */\n@Deprecated(\"This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince =
\"1.5\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value:
Long): 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:
Short): 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: Short): 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: Short): Boolean {\n return value.toByteExactOrNull().let { if (it != null)
contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n
*/\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics
and is going to be removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince
= \"1.5\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun
ClosedRange<Double>.contains(value: Short): Boolean {\n return contains(value.toDouble())\n}\n\n/**\n *
Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer
and floating point arguments has ambiguous semantics and is going to be
removed.\")\n@DeprecatedSinceKotlin(warningSince = \"1.3\", errorSince = \"1.4\", hiddenSince =
\"1.5\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value:
Short): Boolean {\n return contains(value.toFloat())\n}\n\n/**\n * 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 */\n@public infix fun Int.downTo(to: Byte):
IntProgression {\n return IntProgression.fromClosedRange(this, to.toInt(), -1)\n}\n\n/**\n * Returns a progression
from this value down to the specified [to] value with the step -1.\n */\n * The [to] value should be less than or equal
to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\n@public
infix fun Long.downTo(to: Byte): LongProgression {\n return LongProgression.fromClosedRange(this, to.toLong(), -
1L)\n}\n\n/**\n * Returns a progression from this value 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 */\n@public infix fun Byte.downTo(to: Byte): 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 */\n@public infix fun
Short.downTo(to: Byte): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -

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`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 */\n\npublic infix fun Char.downTo(to: Char): CharProgression {\n return CharProgression.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 * If the [to] value is greater than `this` value the returned progression is empty.\n */\n\npublic infix fun Int.downTo(to: Int): IntProgression {\n return IntProgression.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 * If the [to] value is greater than `this` value the returned progression is empty.\n */\n\npublic infix fun Long.downTo(to: Int): 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 */\n\npublic infix fun Byte.downTo(to: Int): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), 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 * If the [to] value is greater than `this` value the returned progression is empty.\n */\n\npublic infix fun Short.downTo(to: Int): IntProgression {\n return IntProgression.fromClosedRange(this.toInt(), 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 * If the [to] value is greater than `this` value the returned progression is empty.\n */\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 */\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 */\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 */\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 */\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 */\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 */\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 */\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 */\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 */\n\npublic fun LongProgression.reversed(): LongProgression {\n return`

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LongProgression.fromClosedRange(last, first, -step)\n\n/**\n * Returns a progression that goes over the same
range in the opposite direction with the same step.\n */\npublic fun CharProgression.reversed(): CharProgression {\n
return CharProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the
same range with the given step.\n */\npublic infix fun IntProgression.step(step: Int): IntProgression {\n
checkStepIsPositive(step > 0, step)\n return IntProgression.fromClosedRange(first, last, if (this.step > 0) step else -
step)\n}\n\n/**\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
Double.toByteExactOrNull(): Byte? {\n return if (this in
Byte.MIN_VALUE.toDouble()..Byte.MAX_VALUE.toDouble()) this.toInt().toByte() else null\n}\n\ninternal fun
Float.toByteExactOrNull(): Byte? {\n return if (this in
Byte.MIN_VALUE.toFloat()..Byte.MAX_VALUE.toFloat()) this.toInt().toByte() else null\n}\n\ninternal fun
Long.toIntExactOrNull(): Int? {\n return if (this in Int.MIN_VALUE.toLong()..Int.MAX_VALUE.toLong())
this.toInt() else null\n}\n\ninternal fun Double.toIntExactOrNull(): Int? {\n return if (this in
Int.MIN_VALUE.toDouble()..Int.MAX_VALUE.toDouble()) this.toInt() else null\n}\n\ninternal fun
Float.toIntExactOrNull(): Int? {\n return if (this in Int.MIN_VALUE.toFloat()..Int.MAX_VALUE.toFloat())
this.toInt() else null\n}\n\ninternal fun Double.toLongExactOrNull(): Long? {\n return if (this in
Long.MIN_VALUE.toDouble()..Long.MAX_VALUE.toDouble()) this.toLong() else null\n}\n\ninternal fun
Float.toLongExactOrNull(): Long? {\n return if (this in
Long.MIN_VALUE.toFloat()..Long.MAX_VALUE.toFloat()) this.toLong() else null\n}\n\ninternal fun
Int.toShortExactOrNull(): Short? {\n return if (this in Short.MIN_VALUE.toInt()..Short.MAX_VALUE.toInt())
this.toShort() else null\n}\n\ninternal fun Long.toShortExactOrNull(): Short? {\n return if (this in
Short.MIN_VALUE.toLong()..Short.MAX_VALUE.toLong()) this.toShort() else null\n}\n\ninternal fun
Double.toShortExactOrNull(): Short? {\n return if (this in
Short.MIN_VALUE.toDouble()..Short.MAX_VALUE.toDouble()) this.toInt().toShort() else null\n}\n\ninternal fun
Float.toShortExactOrNull(): Short? {\n return if (this in
Short.MIN_VALUE.toFloat()..Short.MAX_VALUE.toFloat()) this.toInt().toShort() else null\n}\n\n/**\n * Returns
a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to
`this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Byte): IntRange {\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 */\npublic infix fun
Long.until(to: Byte): 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 */\npublic infix fun Byte.until(to: Byte): 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 */\npublic infix fun
Short.until(to: Byte): 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 */\npublic infix fun Char.until(to: Char): CharRange {\n if (to <= '\u0000')
return CharRange.EMPTY\n return this .. (to - 1).toChar()\n}\n\n/**\n * Returns a range from this value up to but

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less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the
[minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeast\n * \n public fun Long.coerceAtLeast(minimumValue: Long):
Long {\n return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less
than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue]
or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n
*\n public fun Float.coerceAtLeast(minimumValue: Float): Float {\n return if (this < minimumValue)
minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n
* @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n
* @sample samples.comparisons.ComparableOps.coerceAtLeast\n * \n public fun
Double.coerceAtLeast(minimumValue: Double): Double {\n return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostComparable\n * \n public fun <T : Comparable<T>>
T.coerceAtMost(maximumValue: T): T {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n
* Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less
than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n * \n public fun Byte.coerceAtMost(maximumValue: Byte):
Byte {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not
greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n * \n public fun Short.coerceAtMost(maximumValue: Short):
Short {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not
greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the
[maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMost\n * \n public fun Int.coerceAtMost(maximumValue: Int): Int
{\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater
than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or
the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n
*\n public fun Long.coerceAtMost(maximumValue: Long): Long {\n return if (this > maximumValue)
maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n *
\n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n
* @sample samples.comparisons.ComparableOps.coerceAtMost\n * \n public 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 * \n public 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 * \n public fun
<T : Comparable<T>> T.coerceIn(minimumValue: T?, maximumValue: T?): T {\n if (minimumValue !== null
&& maximumValue !== null) {\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 }\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

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 range.lessThanOrEqualTo(range.endInclusive, this) && !range.lessThanOrEqualTo(this, range.endInclusive) ->
range.endInclusive\n else -> this\n }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n *
@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive`
if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceInComparable\n *\npublic fun <T : Comparable<T>>
T.coerceIn(range: ClosedRange<T>): T {\n if (range is ClosedFloatingPointRange) {\n return
this.coerceIn<T>(range)\n }\n if (range.isEmpty()) throw IllegalArgumentException("\Cannot coerce value to an
empty range: $range.")\n return when {\n this < range.start -> range.start\n this > range.endInclusive ->
range.endInclusive\n else -> this\n }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n *
@return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive`
if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *\npublic fun Int.coerceIn(range: ClosedRange<Int>): Int {\n if (range is ClosedFloatingPointRange) {\n
return this.coerceIn<Int>(range)\n }\n if (range.isEmpty()) throw IllegalArgumentException("\Cannot coerce
value to an empty range: $range.")\n return when {\n this < range.start -> range.start\n this >
range.endInclusive -> range.endInclusive\n else -> this\n }\n}\n\n/**\n * Ensures that this value lies in the
specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than
`range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceIn\n *\npublic fun Long.coerceIn(range: ClosedRange<Long>): Long
{\n if (range is ClosedFloatingPointRange) {\n return this.coerceIn<Long>(range)\n }\n if
(range.isEmpty()) throw IllegalArgumentException("\Cannot coerce value to an empty range: $range.")\n return
when {\n this < range.start -> range.start\n this > range.endInclusive -> range.endInclusive\n else ->
this\n }\n}\n\n"/\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *
/\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.experimental.*\nimport
kotlin.jvm.*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@JvmInline\npublic
value class UByte @PublishedApi internal constructor(@PublishedApi internal val data: Byte) :
Comparable<UByte> {\n companion object {\n /**\n * A constant holding the minimum value an
instance of UByte can have.\n *\n * public const val MIN_VALUE: UByte = UByte(0)\n */\n *
A constant holding the maximum value an instance of UByte can have.\n *\n * public const val
MAX_VALUE: UByte = UByte(-1)\n */\n * The number of bytes used to represent an instance of
UByte in a binary form.\n *\n * public const val SIZE_BYTES: Int = 1\n */\n * The number of
bits used to represent an instance of UByte in a binary form.\n *\n * public const val SIZE_BITS: Int = 8\n
}\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to
the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than
other.\n *\n * @kotlin.internal.InlineOnly\n * @Suppress("OVERRIDE_BY_INLINE")\n * public override
inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())\n */\n * 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 *
@\n * @kotlin.internal.InlineOnly\n * public 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 *\n * @kotlin.internal.InlineOnly\n * 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 *\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 *\n * @kotlin.internal.InlineOnly\n * public inline operator fun plus(other: UByte): UInt =
this.toUInt().plus(other.toUInt())\n */\n * Adds the other value to this value.\n *\n * @kotlin.internal.InlineOnly\n

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public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\n /** Adds the other value
to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UInt): UInt =
this.toUInt().plus(other)\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public
inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n /** Subtracts the other value from
this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UByte): UInt =
this.toUInt().minus(other.toUInt())\n /** Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UShort): UInt =
this.toUInt().minus(other.toUInt())\n /** 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 /** 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 /** Multiplies this value by the other value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\n
/** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun
times(other: ULong): ULong = this.toULong().times(other)\n\n /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator
fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())\n /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator
fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\n /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator
fun div(other: UInt): UInt = this.toUInt().div(other)\n /** Divides this value by the other value, truncating the
result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other:
ULong): ULong = this.toULong().div(other)\n\n /**\n * Calculates the remainder of truncating division of this
value by the other value.\n * \n * The result is always less than the divisor.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UByte): UInt =
this.toUInt().rem(other.toUInt())\n /**\n * Calculates the remainder of truncating division of this value by the
other value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())\n /**\n * Calculates the
remainder of truncating division of this value by the other value.\n * \n * The result is always less than the
divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt =
this.toUInt().rem(other)\n /**\n * Calculates the remainder of truncating division of this value by the other
value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n /**\n * Divides this value by
the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned
types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UByte): UInt = this.toUInt().floorDiv(other.toUInt())\n /**\n * Divides this
value by the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned
types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UShort): UInt = this.toUInt().floorDiv(other.toUInt())\n /**\n * Divides this
value by the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned
types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UInt): UInt = this.toUInt().floorDiv(other)\n /**\n * Divides this value by the
other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types, the
results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public
inline fun floorDiv(other: ULong): ULong = this.toULong().floorDiv(other)\n\n /**\n * Calculates the

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remainder of flooring division of this value by the other value.\n * \n * The result is always less than the
divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the same.\n
*\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UByte): UByte =
this.toUInt().mod(other.toUInt()).toUByte()\n /**\n * Calculates the remainder of flooring division of this value
by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the
remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun mod(other: UShort): UShort = this.toUInt().mod(other.toUInt()).toUShort()\n /**\n *
Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is always less
than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the
same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UInt): UInt =
this.toUInt().mod(other)\n /**\n * Calculates the remainder of flooring division of this value by the other
value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders of
flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun
mod(other: ULong): ULong = this.toULong().mod(other)\n\n /**\n * Returns this value incremented by one.\n
*\n * @sample samples.misc.Builtins.inc\n */\n @kotlin.internal.InlineOnly\n public inline operator fun
inc(): UByte = UByte(data.inc())\n\n /**\n * Returns this value decremented by one.\n *\n * @sample
samples.misc.Builtins.dec\n */\n @kotlin.internal.InlineOnly\n public inline operator fun dec(): UByte =
UByte(data.dec())\n\n /** Creates a range from this value to the specified [other] value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: UByte): 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: UByte): UByte = UByte(this.data and other.data)\n
/** Performs a bitwise OR operation between the two values. */\n @kotlin.internal.InlineOnly\n public inline
infix fun or(other: UByte): UByte = UByte(this.data or other.data)\n\n /** Performs a bitwise XOR operation
between the two values. */\n @kotlin.internal.InlineOnly\n public inline infix fun xor(other: UByte): UByte =
UByte(this.data xor other.data)\n\n /** Inverts the bits in this value. */\n @kotlin.internal.InlineOnly\n public
inline fun inv(): UByte = UByte(data.inv())\n\n /**\n * Converts this [UByte] value to [Byte].\n *\n * If
this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n * the same
numerical value as this `UByte`. Otherwise the result is negative.\n *\n * The resulting `Byte` value has the
same binary representation as this `UByte` value.\n */\n @kotlin.internal.InlineOnly\n public inline fun
toByte(): Byte = data\n\n /**\n * Converts this [UByte] value to [Short].\n *\n * The resulting `Short` value
represents the same numerical value as this `UByte`. \n *\n * The least significant 8 bits of the resulting `Short`
value are the same as the bits of this `UByte` value, \n * whereas the most significant 8 bits are filled with zeros.\n
*/\n @kotlin.internal.InlineOnly\n public inline fun toShort(): Short = data.toShort() and 0xFF\n\n /**\n *
Converts this [UByte] value to [Int].\n *\n * The resulting `Int` value represents the same numerical value as
this `UByte`. \n *\n * The least significant 8 bits of the resulting `Int` value are the same as the bits of this
`UByte` value, \n * whereas the most significant 24 bits are filled with zeros.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toInt(): Int = data.toInt() and 0xFF\n\n /**\n * Converts this
[UByte] value to [Long].\n *\n * The resulting `Long` value represents the same numerical value as this
`UByte`. \n *\n * The least significant 8 bits of the resulting `Long` value are the same as the bits of this
`UByte` value, \n * whereas the most significant 56 bits are filled with zeros.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toLong(): Long = data.toLong() and 0xFF\n\n /** Returns this
value. */\n @kotlin.internal.InlineOnly\n public inline fun toUByte(): UByte = this\n\n /**\n * Converts this
[UByte] value to [UShort].\n *\n * The resulting `UShort` value represents the same numerical value as this
`UByte`. \n *\n * The least significant 8 bits of the resulting `UShort` value are the same as the bits of this
`UByte` value, \n * whereas the most significant 8 bits are filled with zeros.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = UShort(data.toShort() and 0xFF)\n\n /**\n
* Converts this [UByte] value to [UInt].\n *\n * The resulting `UInt` value represents the same numerical value
as this `UByte`. \n *\n * The least significant 8 bits of the resulting `UInt` value are the same as the bits of this
`UByte` value.

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`UByte` value, \n * whereas the most significant 24 bits are filled with zeros. \n */
@kotlin.internal.InlineOnly \n public inline fun toUInt(): UInt = UInt(data.toInt() and 0xFF) \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 */
@kotlin.internal.InlineOnly \n public inline fun toULong(): ULong = ULong(data.toLong() and 0xFF) \n /**
* Converts this [UByte] value to [Float]. \n * \n * The resulting `Float` value represents the same numerical
value as this `UByte`. \n */
@kotlin.internal.InlineOnly \n public inline fun toFloat(): Float =
this.toInt().toFloat() \n /**
* Converts this [UByte] value to [Double]. \n * \n * The resulting `Double`
value represents the same numerical value as this `UByte`. \n */
@kotlin.internal.InlineOnly \n public inline
fun toDouble(): Double = this.toInt().toDouble() \n \n public override fun toString(): String =
toInt().toString() \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
*/
@SinceKotlin("1.5") \n @WasExperimental(ExperimentalUnsignedTypes::class) \n @kotlin.internal.InlineOnly \n
public inline fun Byte.toUByte(): UByte = UByte(this) \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
*/
@SinceKotlin("1.5") \n @WasExperimental(ExperimentalUnsignedTypes::class) \n @kotlin.internal.InlineOnly \n
public inline fun Short.toUByte(): UByte = UByte(this.toByte()) \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
*/
@SinceKotlin("1.5") \n @WasExperimental(ExperimentalUnsignedTypes::class) \n @kotlin.internal.InlineOnly \n
public inline fun Int.toUByte(): UByte = UByte(this.toByte()) \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
*/
@SinceKotlin("1.5") \n @WasExperimental(ExperimentalUnsignedTypes::class) \n @kotlin.internal.InlineOnly \n
public inline fun Long.toUByte(): UByte = UByte(this.toByte()) \n " , /*
* Copyright 2010-2022 JetBrains s.r.o.
and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file. \n */ \n // Auto-generated file. DO NOT EDIT! \n \n package
kotlin \n \n import kotlin.experimental.* \n import
kotlin.jvm.* \n \n @SinceKotlin("1.5") \n @WasExperimental(ExperimentalUnsignedTypes::class) \n @JvmInline \n pu
blic value class UInt @PublishedApi internal constructor(@PublishedApi internal val data: Int) :
Comparable<UInt> { \n \n companion object { \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 /**
* A
constant holding the maximum value an instance of UInt can have. \n */ \n public const val MAX_VALUE:
UInt = UInt(-1) \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 /**
* 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 /**
* 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

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compareTo(other: UShort): Int = this.compareTo(other.toInt())\n\n /**\n * Compares this value with the
specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n
@Suppress("OVERRIDE_BY_INLINE")\n public override inline operator fun compareTo(other: 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.toInt())\n
/** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other:
UShort): UInt = this.plus(other.toInt())\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
/** 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.toInt())\n
/** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun
minus(other: UShort): UInt = this.minus(other.toInt())\n /** Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): UInt =
UInt(this.data.minus(other.data))\n /** Subtracts the other value from this value. */\n
@kotlin.internal.InlineOnly\n public inline operator fun minus(other: ULong): ULong =
this.toULong().minus(other)\n\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UByte): UInt = this.times(other.toInt())\n /** Multiplies this value by the
other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UShort): UInt =
this.times(other.toInt())\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UInt): UInt = UInt(this.data.times(other.data))\n /** Multiplies this value
by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: ULong): ULong =
this.toULong().times(other)\n\n /** Divides this value by the other value, truncating the result to an integer that is
closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UByte): UInt =
this.div(other.toInt())\n /** Divides this value by the other value, truncating the result to an integer that is closer
to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UShort): UInt =
this.div(other.toInt())\n /** Divides this value by the other value, truncating the result to an integer that is closer
to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): UInt = uintDivide(this,
other)\n /** Divides this value by the other value, truncating the result to an integer that is closer to zero. */\n
@kotlin.internal.InlineOnly\n public inline operator fun div(other: ULong): ULong =
this.toULong().div(other)\n\n /**\n * Calculates the remainder of truncating division of this value by the other
value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UByte): UInt = this.rem(other.toInt())\n /**\n * Calculates the remainder of
truncating division of this value by the other value.\n * \n * The result is always less than the divisor.\n */\n
@kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): UInt = this.rem(other.toInt())\n
/**\n * Calculates the remainder of truncating division of this value by the other value.\n * \n * The result is
always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt):
UInt = uintRemainder(this, other)\n /**\n * Calculates the remainder of truncating division of this value by the
other value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n /**\n * Divides this value by
the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types,
the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UByte): UInt = this.floorDiv(other.toInt())\n /**\n * Divides this value by the
other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types, the

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results of flooring division and truncating division are the same.\n *^n @kotlin.internal.InlineOnly\n public
inline fun floorDiv(other: UShort): UInt = this.floorDiv(other.toUInt())\n /**\n * Divides this value by the other
value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types, the results
of flooring division and truncating division are the same.\n *^n @kotlin.internal.InlineOnly\n public inline
fun floorDiv(other: UInt): UInt = div(other)\n /**\n * Divides this value by the other value, flooring the result to
an integer that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and
truncating division are the same.\n *^n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other:
ULong): ULong = this.toULong().floorDiv(other)\n\n /**\n * Calculates the remainder of flooring division of
this value by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned
types, the remainders of flooring division and truncating division are the same.\n *^n
 @kotlin.internal.InlineOnly\n public inline fun mod(other: UByte): UByte = this.mod(other.toUInt()).toUByte()\n
 /**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is
always less than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating
division are the same.\n *^n @kotlin.internal.InlineOnly\n public inline fun mod(other: UShort): UShort =
this.mod(other.toUInt()).toUShort()\n /**\n * Calculates the remainder of flooring division of this value by the
other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders
of flooring division and truncating division are the same.\n *^n @kotlin.internal.InlineOnly\n public inline
fun mod(other: UInt): UInt = rem(other)\n /**\n * Calculates the remainder of flooring division of this value by
the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the
remainders of flooring division and truncating division are the same.\n *^n @kotlin.internal.InlineOnly\n
public inline fun mod(other: ULong): ULong = this.toULong().mod(other)\n\n /**\n * Returns this value
incremented by one.\n * \n * @sample samples.misc.Builtins.inc\n *^n @kotlin.internal.InlineOnly\n
public inline operator fun inc(): UInt = UInt(data.inc())\n\n /**\n * Returns this value decremented by one.\n * \n
 * @sample samples.misc.Builtins.dec\n *^n @kotlin.internal.InlineOnly\n public inline operator fun
dec(): UInt = UInt(data.dec())\n\n /**\n * Creates a range from this value to the specified [other] value. *\n
 @kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: UInt): UIntRange = UIntRange(this,
other)\n\n /**\n * Shifts this value left by the [bitCount] number of bits.\n * \n * Note that only the five
lowest-order bits of the [bitCount] are used as the shift distance.\n * \n * The shift distance actually used is
therefore always in the range `0..31`.\n *^n @kotlin.internal.InlineOnly\n public inline infix fun shl(bitCount: Int): UInt
= UInt(data shl bitCount)\n\n /**\n * Shifts this value right by the [bitCount] number of bits, filling the leftmost
bits with zeros.\n * \n * Note that only the five lowest-order bits of the [bitCount] are used as the shift
distance.\n * \n * The shift distance actually used is therefore always in the range `0..31`.\n *^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 /**\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 /**\n Performs a bitwise XOR operation between the two values. *\n @kotlin.internal.InlineOnly\n
public inline infix fun xor(other: UInt): UInt = UInt(this.data xor other.data)\n\n /**\n Inverts the bits in this
value. *\n @kotlin.internal.InlineOnly\n public inline fun inv(): UInt = UInt(data.inv())\n\n /**\n * Converts this
[UInt] value to [Byte].\n * \n * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte`
value represents\n * the same numerical value as this `UInt`.\n * \n * The resulting `Byte` value is
represented by the least significant 8 bits of this `UInt` value.\n * \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 [UInt] value to [Short].\n * \n * If this value is less than or equals to [Short.MAX_VALUE], the
resulting `Short` value represents\n * the same numerical value as this `UInt`.\n * \n * The resulting `Short`
value is represented by the least significant 16 bits of this `UInt` value.\n * \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 [UInt] 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 `UInt`. Otherwise the result is negative.

The resulting `Int` value has the same binary representation as this `UInt` value.

```
@kotlin.internal.InlineOnly
public inline fun toInt(): Int = data
/**
 * Converts this [UInt] value to [Long].
 * The resulting `Long` value represents the same numerical value as this `UInt`.
 * The least significant 32 bits of the resulting `Long` value are the same as the bits of this `UInt` value,
 * whereas the most significant 32 bits are filled with zeros.
 */
@kotlin.internal.InlineOnly
public inline fun toLong(): Long = data.toLong() and 0xFFFF_FFFF
/**
 * Converts this [UInt] value to [UByte].
 * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents the same numerical value as this `UInt`.
 * The resulting `UByte` value is represented by the least significant 8 bits of this `UInt` value.
 */
@kotlin.internal.InlineOnly
public inline fun toUByte(): UByte = data.toUByte()
/**
 * Converts this [UInt] value to [UShort].
 * If this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents the same numerical value as this `UInt`.
 * The resulting `UShort` value is represented by the least significant 16 bits of this `UInt` value.
 */
@kotlin.internal.InlineOnly
public inline fun toUShort(): UShort = data.toUShort()
/** Returns this value. */
@kotlin.internal.InlineOnly
public inline fun toUInt(): UInt = this
/**
 * Converts this [UInt] value to [ULong].
 * The resulting `ULong` value represents the same numerical value as this `UInt`.
 * The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `UInt` value,
 * whereas the most significant 32 bits are filled with zeros.
 */
@kotlin.internal.InlineOnly
public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF_FFFF)
/**
 * Converts this [UInt] value to [Float].
 * The resulting value is the closest `Float` to this `UInt` value.
 * In case when this `UInt` value is exactly between two `Float`s, the one with zero at least significant bit of mantissa is selected.
 */
@kotlin.internal.InlineOnly
public inline fun toFloat(): Float = this.toDouble().toFloat()
/**
 * Converts this [UInt] value to [Double].
 * The resulting `Double` value represents the same numerical value as this `UInt`.
 */
@kotlin.internal.InlineOnly
public inline fun toDouble(): Double = UIntToDouble(data)
public override fun toString(): String = toLong().toString()
/**
 * Converts this [Byte] value to [UInt].
 * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Byte`.
 * The least significant 8 bits of the resulting `UInt` value are the same as the bits of this `Byte` value,
 * whereas the most significant 24 bits are filled with the sign bit of this value.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun Byte.toUInt(): UInt = UInt(this.toInt())
/**
 * Converts this [Short] value to [UInt].
 * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Short`.
 * The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `Short` value,
 * whereas the most significant 16 bits are filled with the sign bit of this value.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun Short.toUInt(): UInt = UInt(this.toInt())
/**
 * Converts this [Int] value to [UInt].
 * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Int`.
 * The resulting `UInt` value has the same binary representation as this `Int` value.
 */
@SinceKotlin("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@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("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@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("1.5")
@WasExperimental(ExperimentalUnsignedTypes::class)
@kotlin.internal.InlineOnly
public inline fun Float.toUInt(): UInt = doubleToUInt(this.toDouble())
/**
 * Converts this [Double] value to

```

```

[UInt].\n *\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Double` value is
negative or `NaN`, [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.\n
*\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
public inline fun Double.toUInt(): UInt = doubleToUInt(this)\n", "/*\n * Copyright 2010-2022 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\nimport kotlin.experimental.*\nimport
kotlin.jvm.*\n\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @JvmInline\n
public value class UShort @PublishedApi internal constructor(@PublishedApi internal val data: Short) :
Comparable<UShort> {\n\n companion object {\n /**\n * A constant holding the minimum value an
instance of UShort can have.\n */\n public const val MIN_VALUE: UShort = UShort(0)\n\n /**\n
 * A constant holding the maximum value an instance of UShort can have.\n */\n public const val
MAX_VALUE: UShort = UShort(-1)\n\n /**\n * The number of bytes used to represent an instance of
UShort in a binary form.\n */\n public const val SIZE_BYTES: Int = 2\n\n /**\n * The number of
bits used to represent an instance of UShort in a binary form.\n */\n public const val SIZE_BITS: Int =
16\n }\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is
equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater
than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UByte): Int =
this.toInt().compareTo(other.toInt())\n\n /**\n * Compares this value with the specified value for order.\n *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a
positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n
 @Suppress("OVERRIDE_BY_INLINE")\n public override inline operator fun compareTo(other: UShort): Int =
this.toInt().compareTo(other.toInt())\n\n /**\n * Compares this value with the specified value for order.\n *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a
positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun
compareTo(other: UInt): Int = this.toUInt().compareTo(other)\n\n /**\n * Compares this value with the
specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n
 public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n /** Adds the
other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UByte): UInt =
this.toUInt().plus(other.toUInt())\n\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n
 public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\n\n /** Adds the other value
to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UInt): UInt =
this.toUInt().plus(other)\n\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public
inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n /** Subtracts the other value from
this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UByte): UInt =
this.toUInt().minus(other.toUInt())\n\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n
 public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())\n\n /** Subtracts the
other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): UInt =
this.toUInt().minus(other)\n\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n
 public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)\n\n /** Multiplies this value
by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UByte): UInt =
this.toUInt().times(other.toUInt())\n\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n
 public inline operator fun times(other: UShort): UInt = this.toUInt().times(other.toUInt())\n\n /** Multiplies
this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UInt): UInt =
this.toUInt().times(other)\n\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n
 public inline operator fun

```

```

times(other: ULong): ULong = this.toULong().times(other)\n\n /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator
fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())\n /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator
fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\n /** Divides this value by the other value,
truncating the result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator
fun div(other: UInt): UInt = this.toUInt().div(other)\n /** Divides this value by the other value, truncating the
result to an integer that is closer to zero. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other:
ULong): ULong = this.toULong().div(other)\n\n /**\n * Calculates the remainder of truncating division of this
value by the other value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UByte): UInt =
this.toUInt().rem(other.toUInt())\n /**\n * Calculates the remainder of truncating division of this value by the
other value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())\n /**\n * Calculates the
remainder of truncating division of this value by the other value.\n * \n * The result is always less than the
divisor.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt =
this.toUInt().rem(other)\n /**\n * Calculates the remainder of truncating division of this value by the other
value.\n * \n * The result is always less than the divisor.\n */\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n /**\n * Divides this value by
the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned
types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UByte): UInt = this.toUInt().floorDiv(other.toUInt())\n /**\n * Divides this
value by the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned
types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UShort): UInt = this.toUInt().floorDiv(other.toUInt())\n /**\n * Divides this
value by the other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned
types, the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun floorDiv(other: UInt): UInt = this.toUInt().floorDiv(other)\n /**\n * Divides this value by the
other value, flooring the result to an integer that is closer to negative infinity.\n * \n * For unsigned types,
the results of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public
inline fun floorDiv(other: ULong): ULong = this.toULong().floorDiv(other)\n\n /**\n * Calculates the
remainder of flooring division of this value by the other value.\n * \n * The result is always less than the
divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the same.\n
*/\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UByte): UByte =
this.toUInt().mod(other.toUInt()).toUByte()\n /**\n * Calculates the remainder of flooring division of this value
by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the
remainders of flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n
public inline fun mod(other: UShort): UShort = this.toUInt().mod(other.toUInt()).toUShort()\n /**\n *
Calculates the remainder of flooring division of this value by the other value.\n * \n * The result is always less
than the divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the
same.\n */\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UInt): UInt =
this.toUInt().mod(other)\n /**\n * Calculates the remainder of flooring division of this value by the other
value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders of
flooring division and truncating division are the same.\n */\n @kotlin.internal.InlineOnly\n public inline fun
mod(other: ULong): ULong = this.toULong().mod(other)\n\n /**\n * Returns this value incremented by one.\n
*/\n @sample samples.misc.Builtins.inc\n */\n @kotlin.internal.InlineOnly\n public inline operator fun
inc(): UShort = UShort(data.inc())\n\n /**\n * Returns this value decremented by one.\n */\n @sample
samples.misc.Builtins.dec\n */\n @kotlin.internal.InlineOnly\n public inline operator fun dec(): 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 */\n @kotlin.internal.InlineOnly\n public inline fun toLong(): Long = data.toLong() and
0xFFFF\n\n /**\n * Converts this [UShort] value to [UByte].\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
* 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\n /** Returns this value. */\n
@kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = this\n\n /**\n * Converts this [UShort]
value to [UInt].\n * The resulting `UInt` value represents the same numerical value as this `UShort`.\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 /**\n * Converts this [UShort] value to [ULong].\n *
The resulting `ULong` value represents the same numerical value as this `UShort`.\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 /**\n * Converts this [UShort] value to [Float].\n * The
resulting `Float` value represents the same numerical value as this `UShort`.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toFloat(): Float = this.toInt().toFloat()\n\n /**\n * Converts this
[UShort] value to [Double].\n * 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 * If this value is positive, the resulting `UShort` value represents the same numerical
value as this `Byte`.\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("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n
public inline fun Byte.toUShort(): UShort = UShort(this.toShort())\n\n /**\n * Converts this [Short] value to
[UShort].\n * If this value is positive, the resulting `UShort` value represents the same numerical value as this

```

```

`Short`.n *n * The resulting `UShort` value has the same binary representation as this `Short` value.n
*/n@SinceKotlin("1.5")n@WasExperimental(ExperimentalUnsignedTypes::class)n@kotlin.internal.InlineOnly\
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 representsn *
the same numerical value as this `Int`.n *n * The resulting `UShort` value is represented by the least significant 16
bits of this `Int` value.n
*/n@SinceKotlin("1.5")n@WasExperimental(ExperimentalUnsignedTypes::class)n@kotlin.internal.InlineOnly\
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 representsn * the same numerical value as this `Long`.n *n * The resulting `UShort` value is represented by
the least significant 16 bits of this `Long` value.n
*/n@SinceKotlin("1.5")n@WasExperimental(ExperimentalUnsignedTypes::class)n@kotlin.internal.InlineOnly\
npublic inline fun Long.toUShort(): UShort = UShort(this.toShort())n"/n * Copyright 2010-2022 JetBrains s.r.o.
and Kotlin Programming Language contributors.n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.n */n// Auto-generated file. DO NOT EDIT!n\npackage
kotlin.ranges\n/**n * A range of values of type `Char`.n */npublic class CharRange(start: Char, endInclusive:
Char) : CharProgression(start, endInclusive, 1), ClosedRange<Char> {n override val start: Char get() = first\n
 override val endInclusive: Char get() = last\n override fun contains(value: Char): Boolean = first <= value &&
value <= last\n /** n * Checks whether the range is empty.n *n * The range is empty if its start value is
greater than the end value.n */n override fun isEmpty(): Boolean = first > last\n override fun equals(other:
Any?): Boolean =\n other is CharRange && (isEmpty() && other.isEmpty()) ||\n first == other.first && last
== other.last\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * first.code + last.code)\n n\n
 override fun toString(): String = "$first..$last"\n companion object {n /** An empty range of values of
type Char. */n public val EMPTY: CharRange = CharRange(1.toChar(), 0.toChar())\n }n}\n/**n * A
range of values of type `Int`.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 override fun contains(value: Int): Boolean = first <= value && value <= last\n /** n * Checks
whether the range is empty.n *n * The range is empty if its start value is greater than the end value.n */n n\n
 override fun isEmpty(): Boolean = first > last\n override fun equals(other: Any?): Boolean =\n other is
IntRange && (isEmpty() && other.isEmpty()) ||\n first == other.first && last == other.last\n n\n
 override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * first + last)\n n\n override fun toString(): String =
"$first..$last"\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`.n */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 override fun
contains(value: Long): Boolean = first <= value && value <= last\n /** n * Checks whether the range is
empty.n *n * The range is empty if its start value is greater than the end value.n */n n\n override fun
isEmpty(): Boolean = first > last\n override fun equals(other: Any?): Boolean =\n other is LongRange &&
(isEmpty() && other.isEmpty()) ||\n first == other.first && last == other.last\n 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\n
 override fun toString(): String = "$first..$last"\n companion object {n /** An empty range of values of type Long. */n
 public val EMPTY: LongRange = LongRange(1, 0)\n }n}\n"/n * Copyright 2010-2021 JetBrains s.r.o.
and Kotlin Programming Language contributors.n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.n
*/n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n@file:OptIn(kotlin.exper
imental.ExperimentalTypeInference::class)\n\npackage kotlin.collections\n\nimport kotlin.contracts.*\nimport
kotlin.random.Random\n\ninternal object EmptyIterator : ListIterator<Nothing> {n override fun hasNext():
Boolean = false\n override fun hasPrevious(): Boolean = false\n override fun nextIndex(): Int = 0\n override

```

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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@kotlin.internal.InlineOnly\npublic inline fun <T> listOf(): List<T> = emptyList()\n\n/**\n * Returns an empty
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

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*\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 * 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 * The returned list is serializable (JVM).\n *\n * @sample
samples.collections.Builders.Lists.buildListSample\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <E> buildList(@BuilderInference builderAction: MutableList<E>().->Unit): List<E> {\n contract {
callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n return
buildListInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal
expect inline fun <E> buildListInternal(builderAction: MutableList<E>().->Unit): List<E>\n\n/**\n * Builds a
new read-only [List] by populating a [MutableList] using the given [builderAction]\n * and returning a read-only list
with the same elements.\n *\n * The list passed as a receiver to the [builderAction] is valid only inside that
function.\n * Using it outside of the function produces an unspecified behavior.\n *\n * The returned list is
serializable (JVM).\n *\n * [capacity] is used to hint the expected number of elements added in the
[builderAction].\n *\n * @throws IllegalArgumentException if the given [capacity] is negative.\n *\n * @sample
samples.collections.Builders.Lists.buildListSampleWithCapacity\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
inline fun <E> buildList(capacity: Int, @BuilderInference builderAction: MutableList<E>().->Unit): List<E> {\n
contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n return buildListInternal(capacity,
builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\ninternal expect inline
fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>().->Unit): List<E>\n\n/**\n * Returns an
[IntRange] of the valid indices for this collection.\n *\n * @sample
samples.collections.Collections.Collections.indicesOfCollection\n\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\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 *\n * @sample
samples.collections.Collections.Collections.collectionIsNotEmpty\n\n*\n@kotlin.internal.InlineOnly\npublic inline
fun <T> Collection<T>.isNotEmpty(): Boolean = !isEmpty()\n\n/**\n * Returns `true` if this nullable collection is
either null or empty.\n *\n * @sample samples.collections.Collections.Collections.collectionIsNullOrEmpty\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>?.isNullOrEmpty():
Boolean {\n contract {\n returns(false) implies (this@isNullOrEmpty != null)\n }\n return this == null ||
this.isEmpty()\n}\n\n/**\n * Returns this Collection if it's not `null` and the empty list otherwise.\n *\n * @sample
samples.collections.Collections.Collections.collectionOrElse\n\n*\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Collection<T>?.orElse(): Collection<T> = this ?: emptyList()\n\n/**\n * Returns this List if it's not `null` and
the empty list otherwise.\n *\n * @sample samples.collections.Collections.Lists.listOrElse\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>?.orElse(): List<T> = this ?: emptyList()\n\n/**\n *
Returns this collection if it's not empty\n * or the result of calling [defaultValue] function if the collection is
empty.\n *\n * @sample samples.collections.Collections.Collections.collectionIfEmpty\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifEmpty(defaultValue: () ->
R): R where C : Collection<*>, C : R =\n if (isEmpty()) defaultValue() else this\n\n\n/**\n * Checks if all
elements in the specified collection are contained in this collection.\n *\n * Allows to overcome type-safety

```

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restriction of `containsAll` that requires to pass a collection of type `Collection<E>`.
samples.collections.Collections.Collections.collectionContainsAll
*/
@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in
some cases
@kotlin.internal.InlineOnly
public inline fun <@kotlin.internal.OnlyInputTypes T>
Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)
*/
Returns a
new list with the elements of this list randomly shuffled
*/
using the specified [random] instance as the source of
randomness.
*/
@SinceKotlin("1.3")
public fun <T> Iterable<T>.shuffled(random: Random): List<T> =
toMutableList().apply { shuffle(random) }
*/
internal fun <T> List<T>.optimizeReadOnlyList() = when (size) {
0 -> emptyList()
1 -> listOf(this[0])
else -> this
}
*/
Searches this list or its range for the provided
[element] using the binary search algorithm.
*/
The list is expected to be sorted into ascending order according to
the Comparable natural ordering of its elements,
*/
otherwise the result is undefined.
*/
If the list contains
multiple elements equal to the specified [element], there is no guarantee which one will be found.
*/
`null`
value is considered to be less than any non-null value.
*/
@return the index of the element, if it is contained in
the list within the specified range;
*/
otherwise, the inverted insertion point `(-insertion point - 1)`
*/
The
insertion point is defined as the index at which the element should be inserted,
*/
so that the list (or the specified
subrange of list) still remains sorted.
*/
@sample
samples.collections.Collections.Lists.binarySearchOnComparable
*/
@sample
samples.collections.Collections.Lists.binarySearchWithBoundaries
*/
public fun <T : Comparable<T>>
List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): Int {
rangeCheck(size, fromIndex,
toIndex)
var low = fromIndex
var high = toIndex - 1
while (low <= high) {
val mid = (low +
high).ushr(1) // safe from overflows
val midVal = get(mid)
val cmp = compareValues(midVal,
element)
if (cmp < 0)
low = mid + 1
else if (cmp > 0)
high = mid - 1
else
return mid // key found
}
return -(low + 1) // key not found
}
*/
Searches this list or its range
for the provided [element] using the binary search algorithm.
*/
The list is expected to be sorted into ascending
order according to the specified [comparator],
*/
otherwise the result is undefined.
*/
If the list contains
multiple elements equal to the specified [element], there is no guarantee which one will be found.
*/
`null`
value is considered to be less than any non-null value.
*/
@return the index of the element, if it is contained in
the list within the specified range;
*/
otherwise, the inverted insertion point `(-insertion point - 1)`
*/
The
insertion point is defined as the index at which the element should be inserted,
*/
so that the list (or the specified
subrange of list) still remains sorted according to the specified [comparator].
*/
@sample
samples.collections.Collections.Lists.binarySearchWithComparator
*/
public fun <T>
List<T>.binarySearch(element: T, comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Int {
rangeCheck(size, fromIndex, toIndex)
var low = fromIndex
var high = toIndex - 1
while (low <=
high) {
val mid = (low + high).ushr(1) // safe from overflows
val midVal = get(mid)
val cmp =
comparator.compare(midVal, element)
if (cmp < 0)
low = mid + 1
else if (cmp > 0)
high = mid - 1
else
return mid // key found
}
return -(low + 1) // key not found
}
*/
Searches this list or its range for an element having the key returned by the specified [selector] function
*/
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(key: K?, fromIndex: Int = 0, toIndex: Int = size, crossinline selector: (T) ->
K?): Int =
binarySearch(fromIndex, toIndex) { compareValues(selector(it), key) }
*/
do not introduce this
overload --- too rare
*/
public fun <T, K> List<T>.binarySearchBy(key: K, comparator: Comparator<K>,

```

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fromIndex: Int = 0, toIndex: Int = size(), selector: (T) -> K): Int = \n// binarySearch(fromIndex, toIndex) {
comparator.compare(selector(it), key) } \n \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. \n * \n * The list is expected to be sorted
so that the signs of the [comparison] function's return values ascend on the list elements, \n * i.e. negative values
come before zero and zeroes come before positive values. \n * Otherwise, the result is undefined. \n * \n * If the list
contains multiple elements for which [comparison] returns zero, there is no guarantee which one will be found. \n * \n
* @param comparison function that returns zero when called on the list element being searched. \n * On the
elements coming before the target element, the function must return negative values; \n * on the elements coming
after the target element, the function must return positive values. \n * \n * @return the index of the found 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.Lists.binarySearchWithComparisonFunction \n * \n 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 /** \n * Checks that `from` and `to` are in \n * the
range of [0..size] and throws an appropriate exception, if they aren't. \n * \n 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") \n internal expect fun checkIndexOverflow(index: Int):
Int \n \n @PublishedApi \n @SinceKotlin("1.3") \n internal expect fun checkCountOverflow(count: Int):
Int \n \n \n @PublishedApi \n @SinceKotlin("1.3") \n internal fun throwIndexOverflow() { throw
ArithmeticException("Index overflow has happened.") } \n \n @PublishedApi \n @SinceKotlin("1.3") \n internal fun
throwCountOverflow() { throw ArithmeticException("Count overflow has happened.") } \n \n \n /** \n * Copyright
2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file. \n
* \n \n @file:kotlin.jvm.JvmMultifileClass \n @file:kotlin.jvm.JvmName("MapsKt") \n @file:OptIn(kotlin.experiment
al.ExperimentalTypeInference::class) \n \n package kotlin.collections \n \n import kotlin.contracts.* \n \n private 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 override val
size: Int get() = 0 \n override fun isEmpty(): Boolean = true \n override fun containsKey(key: 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 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 * \n public 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
* \n public 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

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map.\n * The returned map is serializable (JVM).\n * @sample
samples.collections.Maps.Instantiation.emptyReadOnlyMap\n * \n @kotlin.internal.InlineOnly\n public inline fun
<K, V> mapOf(): Map<K, V> = emptyMap()\n\n **\n * Returns an empty new [MutableMap].\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\n public 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 * If multiple pairs have
the same key, the resulting map will contain the value from the last of those pairs.\n * Entries of the map are
iterated in the order they were specified.\n * @sample
samples.collections.Maps.Instantiation.mutableMapFromPairs\n * @sample
samples.collections.Maps.Instantiation.emptyMutableMap\n * \n public 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 * @sample
samples.collections.Maps.Instantiation.emptyHashMap\n
*\n @SinceKotlin("1.1")\n @kotlin.internal.InlineOnly\n public 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 * @sample
samples.collections.Maps.Instantiation.hashMapFromPairs\n * \n public 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 @SinceKotlin("1.1")\n @kotlin.internal.InlineOnly\n public 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 * If multiple pairs have the same key, the resulting map will contain the value from the
last of those pairs.\n * Entries of the map are iterated in the order they were specified.\n * @sample
samples.collections.Maps.Instantiation.linkedMapFromPairs\n * \n public 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 * 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 * Entries of the map are
iterated in the order they were added by the [builderAction].\n * The returned map is serializable (JVM).\n *
@sample
samples.collections.Builders.Maps.buildMapSample\n
*\n @SinceKotlin("1.6")\n @WasExperimental(ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n publi
c inline fun <K, V> buildMap(@BuilderInference builderAction: MutableMap<K, V>().->Unit): Map<K, V> {\n
 contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n return
 buildMapInternal(builderAction)\n}\n\n @PublishedApi\n @SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n ninter
nal expect inline fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>().->Unit): Map<K,
V>\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 * 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 * [capacity] is used to hint the expected number of pairs added in the [builderAction].\n * Entries
of the map are iterated in the order they were added by the [builderAction].\n * The returned map is serializable
(JVM).\n * @throws IllegalArgumentException if the given [capacity] is negative.\n * @sample
samples.collections.Builders.Maps.buildMapSample\n
*\n @SinceKotlin("1.6")\n @WasExperimental(ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n publi
c inline fun <K, V> buildMap(capacity: Int, @BuilderInference builderAction: MutableMap<K, V>().->Unit):
Map<K, V> {\n contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n return
 buildMapInternal(capacity,
 builderAction)\n}\n\n @PublishedApi\n @SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n ninternal expect inline

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fun <K, V> buildMapInternal(capacity: Int, builderAction: MutableMap<K, V>.() -> Unit): Map<K, V>\n\n/**\n * Calculate the initial capacity of a map.\n * ^\n @PublishedApi\n internal expect fun mapCapacity(expectedSize: Int):\n Int\n\n/**\n * Returns `true` if this map is not empty.\n * @sample\n samples.collections.Maps.Usage.mapIsNotEmpty\n * ^\n @kotlin.internal.InlineOnly\n public inline fun <K, V>\n Map<out K, V>.isEmpty(): Boolean = !isEmpty()\n\n/**\n * Returns `true` if this nullable map is either null or\n empty.\n * @sample\n samples.collections.Maps.Usage.mapIsNullOrEmpty\n * ^\n @SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n public inline fun <K, V> Map<out K,\n V>?.isNullOrEmpty(): Boolean {\n contract {\n returns(false) implies (this@isNullOrEmpty != null)\n }\n return this == null || isEmpty()\n}\n\n/**\n * Returns the [Map] if its not `null`, or the empty [Map] otherwise.\n * @sample\n samples.collections.Maps.Usage.mapOrElse\n * ^\n @kotlin.internal.InlineOnly\n public inline fun\n <K, V> Map<K, V>?.orElse(): Map<K, V> = this ?: emptyMap()\n\n/**\n * Returns this map if it's not empty\n * or the result of calling [defaultValue] function if the map is empty.\n * @sample\n samples.collections.Maps.Usage.mapIfEmpty\n * ^\n @SinceKotlin("1.3")\n @kotlin.internal.InlineOnly\n public\n inline fun <M, R> M.ifEmpty(defaultValue: () -> R): R where M : Map<*, *>, M : R =\n if (isEmpty())\n defaultValue() else this\n\n/**\n * Checks if the map contains the given key.\n * @sample\n samples.collections.Maps.Usage.containsKey\n * ^\n @kotlin.internal.InlineOnly\n public inline operator fun\n <@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.contains(key: K): Boolean = containsKey(key)\n\n/**\n * Returns the value corresponding to the given [key], or `null` if such a key is not present in the map.\n * ^\n @kotlin.internal.InlineOnly\n public inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K,\n V>.get(key: K): V? =\n @Suppress("UNCHECKED_CAST") (this as Map<K, V>).get(key)\n\n/**\n * Allows\n to use the index operator for storing values in a mutable map.\n * ^\n @kotlin.internal.InlineOnly\n public inline\n operator fun <K, V> MutableMap<K, V>.set(key: K, value: V): Unit {\n put(key, value)\n}\n\n/**\n * Returns\n `true` if the map contains the specified [key].\n * @sample\n samples.collections.Maps.Usage.containsKey\n * ^\n @kotlin.internal.InlineOnly\n public inline fun\n <@kotlin.internal.OnlyInputTypes K> Map<out K, *>.containsKey(key: K): Boolean =\n @Suppress("UNCHECKED_CAST") (this as Map<K, *>).containsKey(key)\n\n/**\n * Returns `true` if the map\n maps one or more keys to the specified [value].\n * @sample\n samples.collections.Maps.Usage.containsValue\n * ^\n @Suppress("EXTENSION_SHADOWED_BY_MEMBER")\n // false warning, extension takes precedence in some cases\n @kotlin.internal.InlineOnly\n public inline fun <K,\n @kotlin.internal.OnlyInputTypes V> Map<K, V>.containsValue(value: V): Boolean =\n this.containsValue(value)\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 * Allows to\n overcome type-safety restriction of `remove` that requires to pass a key of type `K`.\n * ^\n @kotlin.internal.InlineOnly\n public inline fun <@kotlin.internal.OnlyInputTypes K, V> MutableMap<out K,\n V>.remove(key: K): V? =\n @Suppress("UNCHECKED_CAST") (this as MutableMap<K,\n V>).remove(key)\n\n/**\n * Returns the key component of the map entry.\n * This method allows to use\n destructuring declarations when working with maps, for example:\n * ```\n * for ((key, value) in map) {\n * // do something with the key and the value\n * }\n * ```\n * ^\n @kotlin.internal.InlineOnly\n public inline operator fun <K,\n V> Map.Entry<K, V>.component1(): K = key\n\n/**\n * Returns the value component of the map entry.\n * This method allows to use destructuring declarations when working with maps, for example:\n * ```\n * for ((key,\n value) in map) {\n * // do something with the key and the value\n * }\n * ```\n * ^\n @kotlin.internal.InlineOnly\n public inline operator fun <K, V> Map.Entry<K, V>.component2(): V =\n value\n\n/**\n * Converts entry to [Pair] with key being first component and value being second.\n * ^\n @kotlin.internal.InlineOnly\n public inline fun <K, V> Map.Entry<K, V>.toPair(): Pair<K, V> = Pair(key,\n value)\n\n/**\n * Returns the value for the given key, or the result of the [defaultValue] function if there was no\n entry for the given key.\n * @sample\n samples.collections.Maps.Usage.getOrElse\n
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*

@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

= getOrImplicitDefault(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

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

public inline fun <K, V, R> Map<out K,

V>.mapValues(transform: (Map.Entry<K, V>) -> R): Map<K, R> {

 return mapValuesTo(LinkedHashMap<K,

R>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()

}

Returns a new 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.

The returned map preserves the entry iteration order of the original

map.

@sample samples.collections.Maps.Transformations.mapKeys

public inline fun <K, V, R>

Map<out K, V>.mapKeys(transform: (Map.Entry<K, V>) -> R): Map<R, V> {

 return

 mapKeysTo(LinkedHashMap<R, V>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()

}

Returns a map containing all key-value pairs with keys matching the given [predicate].

The returned map

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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 =\n LinkedHashMap<K, V>()\n for (entry in this) {\n if (predicate(entry.key)) {\n result.put(entry.key,\n entry.value)\n }\n }\n return result\n}\n\n/**\n * Returns a map containing all key-value pairs with values\n 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,\n V>.filterValues(predicate: (V) -> Boolean): Map<K, V> {\n val result = LinkedHashMap<K, V>()\n for (entry\n in this) {\n if (predicate(entry.value)) {\n result.put(entry.key, entry.value)\n }\n }\n return\n result\n}\n\n/**\n * Appends all entries matching the given [predicate] into the mutable map given as [destination]\n 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:\n (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\n containing all key-value pairs matching the given [predicate].\n * The returned map preserves the entry iteration\n order of the original map.\n * @sample samples.collections.Maps.Filtering.filter\n
*\npublic inline fun <K, V>\n Map<out K, V>.filter(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {\n return\n filterTo(LinkedHashMap<K, V>(), predicate)\n}\n\n/**\n * Appends all entries not matching the given [predicate]\n into the given [destination].\n * @return the destination map.\n * @sample\n samples.collections.Maps.Filtering.filterNotTo\n
*\npublic inline fun <K, V, M : MutableMap<in K, in V>>\n Map<out K, V>.filterNotTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {\n for (element in\n this) {\n if (!predicate(element)) {\n destination.put(element.key, element.value)\n }\n }\n return\n 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\n samples.collections.Maps.Filtering.filterNot\n
*\npublic inline fun <K, V> Map<out K, V>.filterNot(predicate:\n (Map.Entry<K, V>) -> Boolean): Map<K, V> {\n return filterNotTo(LinkedHashMap<K, V>(),\n 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\n same key the last one gets added to the map.\n * @npublic fun <K, V> Iterable<Pair<K, V>>.toMap(): Map<K, V>\n {\n if (this is Collection) {\n return when (size) {\n 0 -> emptyMap()\n 1 -> mapOf(if (this is\n 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\n [destination] mutable map with key-value pairs from the given collection of pairs.\n * @npublic fun <K, V, M :\n MutableMap<in K, in V>> Iterable<Pair<K, V>>.toMap(destination: M): M =\n destination.apply {\n 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\n the same key the last one gets added to the map.\n * @npublic fun <K, V> Array<out Pair<K, V>>.toMap(): Map<K,\n V> = when (size) {\n 0 -> emptyMap()\n 1 -> mapOf(this[0])\n else -> toMap(LinkedHashMap<K,\n V>(mapCapacity(size)))\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n from the given array of pairs.\n * @npublic fun <K, V, M : MutableMap<in K, in V>> Array<out Pair<K,\n V>>.toMap(destination: M): M =\n destination.apply {\n putAll(this@toMap) }\n\n/**\n * Returns a new map\n containing all key-value pairs from the given sequence of pairs.\n * The returned map preserves the entry\n iteration order of the original sequence.\n * If any of two pairs would have the same key the last one gets added to\n the map.\n * @npublic fun <K, V> Sequence<Pair<K, V>>.toMap(): Map<K, V> = toMap(LinkedHashMap<K,\n V>()).optimizeReadOnlyMap()\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n from the given sequence of pairs.\n * @npublic fun <K, V, M : MutableMap<in K, in V>> Sequence<Pair<K,\n V>>.toMap(destination: M): M =\n destination.apply {\n putAll(this@toMap) }\n\n/**\n * Returns a new read-only\n map containing all key-value pairs from the original map.\n * The returned map preserves the entry iteration\n order of the original map.\n * @Since Kotlin("1.1")\npublic fun <K, V> Map<out K, V>.toMap(): Map<K, V> =

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when (size) { \n 0 -> emptyMap()\n 1 -> toSingletonMap()\n else -> toMutableMap()\n }\n\n/\*\*\n \* Returns a new mutable map containing all key-value pairs from the original map.\n \*/\n \* The returned map preserves the entry iteration order of the original map.\n \*/\n\n@SinceKotlin("1.1")\npublic fun <K, V> Map<out K, V>.toMutableMap(): MutableMap<K, V> = LinkedHashMap(this)\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs from the given map.\n \*/\n\n@SinceKotlin("1.1")\npublic fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.toMap(destination: M): M =\n destination.apply { putAll(this@toMap) }\n\n/\*\*\n \* Creates a new read-only map by replacing or adding an entry to this map from a given key-value [pair].\n \*/\n \* The returned map preserves the entry iteration order of the original map.\n \* The [pair] is iterated in the end if it has a unique key.\n \*/\n\npublic operator fun <K, V> Map<out K, V>.plus(pair: Pair<K, V>): Map<K, V> =\n if (this.isEmpty()) mapOf(pair) else LinkedHashMap(this).apply { put(pair.first, pair.second) }\n\n/\*\*\n \* Creates a new read-only map by replacing or adding entries to this map from a given collection of key-value [pairs].\n \*/\n \* The returned map preserves the entry iteration order of the original map.\n \* Those [pairs] with unique keys are iterated in the end in the order of [pairs] collection.\n \*/\n\npublic operator fun <K, V> Map<out K, V>.plus(pairs: Iterable<Pair<K, V>>): Map<K, V> =\n if (this.isEmpty()) pairs.toMap() else LinkedHashMap(this).apply { putAll(pairs) }\n\n/\*\*\n \* Creates a new read-only map by replacing or adding entries to this map from a given array of key-value [pairs].\n \*/\n \* The returned map preserves the entry iteration order of the original map.\n \* Those [pairs] with unique keys are iterated in the end in the order of [pairs] array.\n \*/\n\npublic operator fun <K, V> Map<out K, V>.plus(pairs: Array<out Pair<K, V>>): Map<K, V> =\n if (this.isEmpty()) pairs.toMap() else LinkedHashMap(this).apply { putAll(pairs) }\n\n/\*\*\n \* Creates a new read-only map by replacing or adding entries to this map from a given sequence of key-value [pairs].\n \*/\n \* The returned map preserves the entry iteration order of the original map.\n \* Those [pairs] with unique keys are iterated in the end in the order of [pairs] sequence.\n \*/\n\npublic operator fun <K, V> Map<out K, V>.plus(pairs: Sequence<Pair<K, V>>): Map<K, V> =\n LinkedHashMap(this).apply { putAll(pairs) }.optimizeReadOnlyMap()\n\n/\*\*\n \* Creates a new read-only map by replacing or adding entries to this map from another [map].\n \*/\n \* The returned map preserves the entry iteration order of the original map.\n \* Those entries of another [map] that are missing in this map are iterated in the end in the order of that [map].\n \*/\n\npublic operator fun <K, V> Map<out K, V>.plus(map: Map<out K, V>): Map<K, V> =\n LinkedHashMap(this).apply { putAll(map) }\n\n/\*\*\n \* Appends or replaces the given [pair] in this mutable map.\n \*/\n\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pair: Pair<K, V>) {\n put(pair.first, pair.second)\n}\n\n/\*\*\n \* Appends or replaces all pairs from the given collection of [pairs] in this mutable map.\n \*/\n\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Iterable<Pair<K, V>>) {\n putAll(pairs)\n}\n\n/\*\*\n \* Appends or replaces all pairs from the given array of [pairs] in this mutable map.\n \*/\n\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Array<out Pair<K, V>>) {\n putAll(pairs)\n}\n\n/\*\*\n \* Appends or replaces all pairs from the given sequence of [pairs] in this mutable map.\n \*/\n\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Sequence<Pair<K, V>>) {\n putAll(pairs)\n}\n\n/\*\*\n \* Appends or replaces all entries from the given [map] in this mutable map.\n \*/\n\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(map: Map<K, V>) {\n putAll(map)\n}\n\n/\*\*\n \* Returns a map containing all entries of the original map except the entry with the given [key].\n \*/\n \* The returned map preserves the entry iteration order of the original map.\n \*/\n\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 \*/\n \* The returned map preserves the entry iteration order of the original map.\n \*/\n\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 \*/\n \* The returned map preserves the entry iteration order of the original map.\n \*/\n\n@SinceKotlin("1.1")\npublic operator fun <K, V> Map<out K, V>.minus(keys:

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Array<out K>): Map<K, V> =\n this.toMutableMap().apply { minusAssign(keys)
}.optimizeReadOnlyMap()\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 *\n * The returned map preserves the entry
iteration order of the original map.\n */\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 * Removes the entry with the given [key] from this mutable map.\n
*/\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 * Removes all entries the keys of which are contained in
the given [keys] collection from this mutable map.\n
*/\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 * Removes all entries the keys of
which are contained in the given [keys] array from this mutable map.\n
*/\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 * Removes all entries from the
keys of which are contained in the given [keys] sequence from this mutable map.\n
*/\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 * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("\SetsKt")\n@file:OptIn(kotlin.experimenta
l.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\n override fun equals(other: Any?): Boolean = other is Set<*> && other.isEmpty()\n
 override fun hashCode(): Int = 0\n override fun toString(): String = "[]"\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 override fun iterator():
Iterator<Nothing> = EmptyIterator\n\n private fun readResolve(): Any = EmptySet\n}\n/**\n * Returns an
empty read-only set. The returned set is serializable (JVM).\n */\n * @sample
samples.collections.Collections.Sets.emptyReadOnlySet\n */\npublic fun <T> emptySet(): Set<T> =
EmptySet\n/**\n * Returns a new read-only set with the given elements.\n * Elements of the set are iterated in the
order they were specified.\n * The returned set is serializable (JVM).\n */\n * @sample
samples.collections.Collections.Sets.readOnlySet\n */\npublic fun <T> setOf(vararg elements: T): Set<T> = if
(elements.size > 0) elements.toSet() else emptySet()\n/**\n * Returns an empty read-only set. The returned set is
serializable (JVM).\n */\n * @sample samples.collections.Collections.Sets.emptyReadOnlySet\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> setOf(): Set<T> = emptySet()\n/**\n * Returns an empty
new [MutableSet].\n */\n * The returned set preserves the element iteration order.\n */\n * @sample
samples.collections.Collections.Sets.emptyMutableSet\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> mutableSetOf(): MutableSet<T> =
LinkedHashSet()\n/**\n * Returns a new [MutableSet] with the given elements.\n * Elements of the set are
iterated in the order they were specified.\n */\n * @sample samples.collections.Collections.Sets.mutableSet\n */\npublic
fun <T> mutableSetOf(vararg elements: T): MutableSet<T> =
elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n/**\n * Returns an empty new [HashSet].\n
*/\n@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun <T> hashSetOf(): HashSet<T> =
HashSet()\n/**\n * Returns a new [HashSet] with the given elements.\n */\npublic fun <T> hashSetOf(vararg elements:
T): HashSet<T> = elements.toCollection(HashSet(mapCapacity(elements.size)))\n/**\n * Returns an empty new
[LinkedHashSet].\n */\n * @sample samples.collections.Collections.Sets.emptyLinkedHashSet\n

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*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public inline fun <T> linkedSetOf(): LinkedHashSet<T>
= LinkedHashSet()\n/**\n * Returns a new [LinkedHashSet] with the given elements.\n * Elements of the set are
iterated in the order they were specified.\n * @sample samples.collections.Collections.Sets.linkedHashSet\n
*^public fun <T> linkedSetOf(vararg elements: T): LinkedHashSet<T> =
elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n/**\n * Returns a new read-only set either
with single given element, if it is not null, or empty set if the element is null.\n * The returned set is serializable
(JVM).\n * @sample samples.collections.Collections.Sets.setOfNotNull\n *^@SinceKotlin("1.4")^public fun <T
: Any> setOfNotNull(element: T?): Set<T> = if (element != null) setOf(element) else emptySet()\n/**\n * Returns
a new read-only set only with those given elements, that are not null.\n * Elements of the set are iterated in the order
they were specified.\n * The returned set is serializable (JVM).\n * @sample
samples.collections.Collections.Sets.setOfNotNull\n *^@SinceKotlin("1.4")^public fun <T : Any>
setOfNotNull(vararg elements: T?): Set<T> {\n return elements.filterNotNullTo(LinkedHashSet())\n}\n/**\n *
Builds a new read-only [Set] by populating a [MutableSet] using the given [builderAction]\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 * The returned set is serializable (JVM).\n * \n *
@sample samples.collections.Builders.Sets.buildSetSample\n
*^@SinceKotlin("1.6")^@WasExperimental(ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^public
inline fun <E> buildSet(@BuilderInference builderAction: MutableSet<E>().-> Unit): Set<E> {\n contract {
callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n return
buildSetInternal(builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")^@kotlin.internal.InlineOnly^internal
expect inline fun <E> buildSetInternal(builderAction: MutableSet<E>().-> Unit): Set<E>\n/**\n * Builds a
new read-only [Set] by populating a [MutableSet] using the given [builderAction]\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 * The returned set is serializable (JVM).\n * \n * @throws
IllegalArgumentException if the given [capacity] is negative.\n * \n * @sample
samples.collections.Builders.Sets.buildSetSample\n
*^@SinceKotlin("1.6")^@WasExperimental(ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^public
inline fun <E> buildSet(capacity: Int, @BuilderInference builderAction: MutableSet<E>().-> Unit): Set<E> {\n
contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE) }\n return buildSetInternal(capacity,
builderAction)\n}\n\n@PublishedApi\n@SinceKotlin("1.3")^@kotlin.internal.InlineOnly^internal expect inline
fun <E> buildSetInternal(capacity: Int, builderAction: MutableSet<E>().-> Unit): Set<E>\n/**\n * Returns this Set
if it's not `null` and the empty set otherwise. *^@kotlin.internal.InlineOnly^public inline fun <T>
Set<T>?.orEmpty(): Set<T> = this ?: emptySet()\n\ninternal fun <T> Set<T>.optimizeReadOnlySet() = when (size)
{\n 0 -> emptySet()\n 1 -> setOf(iterator().next())\n 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
*^@file:kotlin.jvm.JvmMultifileClass^@file:kotlin.jvm.JvmName("StringsKt")^@file:Suppress("PLATFORM_CLASS_MAPPED_TO_KOTLIN")^package kotlin.text\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
*^@SinceKotlin("1.1")^public fun String.toByteArrayOrNull(): Byte? = toByteOrNull(radix = 10)\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 *^@SinceKotlin("1.1")^public fun String.toByteArrayOrNull(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.toByteArray()\n}\n/**\n * Parses the string as a [Short] number and returns the result\n * or `null` if the string

```



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 [inWholeHours], [inWholeMinutes], [inWholeSeconds], [inWholeNanoseconds], and so on.\n \*

```

@SinceKotlin("1.6")
@WasExperimental(ExperimentalTime::class)
@JvmInline
public value class Duration internal constructor(private val rawValue: Long) : Comparable<Duration> {
 private val value: Long get() = rawValue shr 1
 private inline val unitDiscriminator: Int get() = rawValue.toInt() and 1
 private fun isInNanos() = unitDiscriminator == 0
 private fun isInMillis() = unitDiscriminator == 1
 private val storageUnit get() = if (isInNanos()) DurationUnit.NANOSECONDS else DurationUnit.MILLISECONDS

 init {
 if (durationAssertionsEnabled) {
 if (isInNanos()) {
 if (value !in -MAX_NANOS..MAX_NANOS) throw AssertionError("$value ns is out of nanoseconds range")
 } else {
 if (value !in -MAX_MILLIS..MAX_MILLIS) throw AssertionError("$value ms is out of milliseconds range")
 if (value in -MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) throw AssertionError("$value ms is denormalized")
 }
 }
 }

 companion object {
 /** The duration equal to exactly 0 seconds. */
 public val ZERO: Duration = Duration(0L)
 /** The duration whose value is positive infinity. It is useful for representing timeouts that should never expire. */
 public val INFINITE: Duration = durationOfMillis(MAX_MILLIS)
 internal val NEG_INFINITE: Duration = durationOfMillis(-MAX_MILLIS)
 /** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified [targetUnit]. */
 @ExperimentalTime
 public fun convert(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double = convertDurationUnit(value, sourceUnit, targetUnit)

 // Duration construction extension properties in Duration companion scope
 /** Returns a [Duration] equal to this [Int] number of nanoseconds. */
 @kotlin.internal.InlineOnly
 public inline val Int.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)
 /** Returns a [Duration] equal to this [Long] number of nanoseconds. */
 @kotlin.internal.InlineOnly
 public inline val Long.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)
 /** Returns a [Duration] equal to this [Double] number of nanoseconds. Depending on its magnitude, the value is rounded to an integer number of nanoseconds or milliseconds. */
 @throws IllegalArgumentException if this [Double] value is NaN
 @kotlin.internal.InlineOnly
 public inline val Double.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)
 /** Returns a [Duration] equal to this [Int] number of microseconds. */
 @kotlin.internal.InlineOnly
 public inline val Int.microseconds get() = toDuration(DurationUnit.MICROSECONDS)
 /** Returns a [Duration] equal to this [Long] number of microseconds. */
 @kotlin.internal.InlineOnly
 public inline val Long.microseconds get() = toDuration(DurationUnit.MICROSECONDS)
 /** Returns a [Duration] equal to this [Double] number of microseconds. Depending on its magnitude, the value is rounded to an integer number of nanoseconds or milliseconds. */
 @throws IllegalArgumentException if this [Double] value is NaN
 @kotlin.internal.InlineOnly
 public inline val Double.microseconds get() = toDuration(DurationUnit.MICROSECONDS)
 /** Returns a [Duration] equal to this [Int] number of milliseconds. */
 @kotlin.internal.InlineOnly
 public inline val Int.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)
 /** Returns a [Duration] equal to this [Long] number of milliseconds. */
 @kotlin.internal.InlineOnly
 public inline val Long.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)
 /** Returns a [Duration] equal to this [Double] number of milliseconds. Depending on its magnitude, the value is rounded to an integer number of nanoseconds or milliseconds. */
 @throws IllegalArgumentException if this [Double] value is NaN
 @kotlin.internal.InlineOnly
 public inline val Double.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)
 /** Returns a [Duration] equal to this [Int] number of seconds. */
 @kotlin.internal.InlineOnly
 public inline val Int.seconds get() = toDuration(DurationUnit.SECONDS)
 /** Returns a [Duration] equal to this [Long] number of seconds. */
 @kotlin.internal.InlineOnly
 public inline val Long.seconds get() =

```

```

toDuration(DurationUnit.SECONDS)\n\n /**\n * Returns a [Duration] equal to this [Double] number of
seconds.\n *\n * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or
milliseconds.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n */\n @kotlin.internal.InlineOnly\n public inline val Double.seconds get() =
toDuration(DurationUnit.SECONDS)\n\n\n /** Returns a [Duration] equal to this [Int] number of minutes. */\n @kotlin.internal.InlineOnly\n public inline val Int.minutes get() = toDuration(DurationUnit.MINUTES)\n\n\n /** Returns a [Duration] equal to this [Long] number of minutes. */\n @kotlin.internal.InlineOnly\n public inline val Long.minutes get() = toDuration(DurationUnit.MINUTES)\n\n\n /**\n * Returns a [Duration] equal to this [Double] number of minutes.\n *\n * Depending on its magnitude, the value is rounded to an integer number of nanoseconds or
milliseconds.\n *\n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n */\n @kotlin.internal.InlineOnly\n public inline val Double.minutes
get() = toDuration(DurationUnit.MINUTES)\n\n\n /** Returns a [Duration] equal to this [Int] number of hours.
*/\n @kotlin.internal.InlineOnly\n public inline val Int.hours get() = toDuration(DurationUnit.HOURS)\n\n\n /** Returns a [Duration] equal to this [Long] number of hours. */\n @kotlin.internal.InlineOnly\n public
inline val Long.hours get() = toDuration(DurationUnit.HOURS)\n\n\n /**\n * Returns a [Duration] equal to
this [Double] number of hours.\n *\n * Depending on its magnitude, the value is rounded to an integer
number of nanoseconds or milliseconds.\n *\n * @throws IllegalArgumentException if this [Double]
value is `NaN`.\n */\n @kotlin.internal.InlineOnly\n public inline val Double.hours get() =
toDuration(DurationUnit.HOURS)\n\n\n /** Returns a [Duration] equal to this [Int] number of days. */\n @kotlin.internal.InlineOnly\n public inline val Int.days get() = toDuration(DurationUnit.DAYS)\n\n\n /**
Returns a [Duration] equal to this [Long] number of days. */\n @kotlin.internal.InlineOnly\n public inline
val Long.days get() = toDuration(DurationUnit.DAYS)\n\n\n /**\n * Returns a [Duration] equal to this
[Double] number of days.\n *\n * Depending on its magnitude, the value is rounded to an integer number
of nanoseconds or milliseconds.\n *\n * @throws IllegalArgumentException if this [Double] value is
`NaN`.\n */\n @kotlin.internal.InlineOnly\n public inline val Double.days get() =
toDuration(DurationUnit.DAYS)\n\n\n // deprecated static factory functions\n /** Returns a [Duration]
representing the specified [value] number of nanoseconds. */\n @SinceKotlin("1.5")\n @ExperimentalTime\n @Deprecated("Use 'Int.nanoseconds' extension property from Duration.Companion
instead.", ReplaceWith("value.nanoseconds", "kotlin.time.Duration.Companion.nanoseconds"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public fun nanoseconds(value: Int): Duration =
value.toDuration(DurationUnit.NANOSECONDS)\n\n\n /** Returns a [Duration] representing the specified
[value] number of nanoseconds. */\n @SinceKotlin("1.5")\n @ExperimentalTime\n @Deprecated("Use 'Long.nanoseconds' extension property from Duration.Companion instead.",
ReplaceWith("value.nanoseconds", "kotlin.time.Duration.Companion.nanoseconds"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public fun nanoseconds(value: Long): Duration =
value.toDuration(DurationUnit.NANOSECONDS)\n\n\n /**\n * Returns a [Duration] representing the
specified [value] number of nanoseconds.\n *\n * @throws IllegalArgumentException if the provided
`Double` [value] is `NaN`.\n */\n @SinceKotlin("1.5")\n @ExperimentalTime\n @Deprecated("Use 'Double.nanoseconds' extension property from Duration.Companion instead.",
ReplaceWith("value.nanoseconds", "kotlin.time.Duration.Companion.nanoseconds"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public fun nanoseconds(value: Double): Duration =
value.toDuration(DurationUnit.NANOSECONDS)\n\n\n /** Returns a [Duration] representing the specified
[value] number of microseconds. */\n @SinceKotlin("1.5")\n @ExperimentalTime\n @Deprecated("Use 'Int.microseconds' extension property from Duration.Companion instead.",
ReplaceWith("value.microseconds", "kotlin.time.Duration.Companion.microseconds"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public fun microseconds(value: Int): Duration =
value.toDuration(DurationUnit.MICROSECONDS)\n\n\n /** Returns a [Duration] representing the specified
[value] number of microseconds. */\n @SinceKotlin("1.5")\n @ExperimentalTime

```

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@Deprecated("Use 'Long.microseconds' extension property from Duration.Companion instead.",
ReplaceWith("value.microseconds", "kotlin.time.Duration.Companion.microseconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n public fun microseconds(value: Long): Duration =
value.toDuration(DurationUnit.MICROSECONDS)\n\n /**\n * Returns a [Duration] representing the
specified [value] number of microseconds.\n *\n * @throws IllegalArgumentException if the provided
`Double` [value] is `NaN`.\n */\n @SinceKotlin("1.5")\n @ExperimentalTime\n
@Deprecated("Use 'Double.microseconds' extension property from Duration.Companion instead.",
ReplaceWith("value.microseconds", "kotlin.time.Duration.Companion.microseconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n public fun microseconds(value: Double): Duration =
value.toDuration(DurationUnit.MICROSECONDS)\n\n /** Returns a [Duration] representing the specified
[value] number of milliseconds. *\n @SinceKotlin("1.5")\n @ExperimentalTime\n
@Deprecated("Use 'Int.milliseconds' extension property from Duration.Companion instead.",
ReplaceWith("value.milliseconds", "kotlin.time.Duration.Companion.milliseconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n public fun milliseconds(value: Int): Duration =
value.toDuration(DurationUnit.MILLISECONDS)\n\n /** Returns a [Duration] representing the specified
[value] number of milliseconds. *\n @SinceKotlin("1.5")\n @ExperimentalTime\n
@Deprecated("Use 'Long.milliseconds' extension property from Duration.Companion instead.",
ReplaceWith("value.milliseconds", "kotlin.time.Duration.Companion.milliseconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n public fun milliseconds(value: Long): Duration =
value.toDuration(DurationUnit.MILLISECONDS)\n\n /**\n * Returns a [Duration] representing the
specified [value] number of milliseconds.\n *\n * @throws IllegalArgumentException if the provided
`Double` [value] is `NaN`.\n */\n @SinceKotlin("1.5")\n @ExperimentalTime\n
@Deprecated("Use 'Double.milliseconds' extension property from Duration.Companion instead.",
ReplaceWith("value.milliseconds", "kotlin.time.Duration.Companion.milliseconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n public fun milliseconds(value: Double): Duration =
value.toDuration(DurationUnit.MILLISECONDS)\n\n /** Returns a [Duration] representing the specified
[value] number of seconds. *\n @SinceKotlin("1.5")\n @ExperimentalTime\n @Deprecated("Use
'Int.seconds' extension property from Duration.Companion instead.", ReplaceWith("value.seconds",
"kotlin.time.Duration.Companion.seconds"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public
fun seconds(value: Int): Duration = value.toDuration(DurationUnit.SECONDS)\n\n /** Returns a [Duration]
representing the specified [value] number of seconds. *\n @SinceKotlin("1.5")\n @ExperimentalTime\n
 @Deprecated("Use 'Long.seconds' extension property from Duration.Companion instead.",
ReplaceWith("value.seconds", "kotlin.time.Duration.Companion.seconds"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n public fun seconds(value: Long): Duration =
value.toDuration(DurationUnit.SECONDS)\n\n /**\n * Returns a [Duration] representing the specified
[value] number of seconds.\n *\n * @throws IllegalArgumentException if the provided `Double` [value] is
`NaN`.\n */\n @SinceKotlin("1.5")\n @ExperimentalTime\n @Deprecated("Use
'Double.seconds' extension property from Duration.Companion instead.", ReplaceWith("value.seconds",
"kotlin.time.Duration.Companion.seconds"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public
fun seconds(value: Double): Duration = value.toDuration(DurationUnit.SECONDS)\n\n /** Returns a
[Duration] representing the specified [value] number of minutes. *\n @SinceKotlin("1.5")\n
@ExperimentalTime\n @Deprecated("Use 'Int.minutes' extension property from Duration.Companion
instead.", ReplaceWith("value.minutes", "kotlin.time.Duration.Companion.minutes"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n public fun minutes(value: Int): Duration =
value.toDuration(DurationUnit.MINUTES)\n\n /** Returns a [Duration] representing the specified [value]
number of minutes. *\n @SinceKotlin("1.5")\n @ExperimentalTime\n @Deprecated("Use
'Long.minutes' extension property from Duration.Companion instead.", ReplaceWith("value.minutes",
"kotlin.time.Duration.Companion.minutes"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public

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fun minutes(value: Long): Duration = value.toDuration(DurationUnit.MINUTES)\n\n /**\n * Returns a
[Duration] representing the specified [value] number of minutes.\n *\n * @throws
IllegalArgumentException if the provided `Double` [value] is `NaN`.\n *\n * @SinceKotlin("1.5")\n
@ExperimentalTime\n @Deprecated("Use 'Double.minutes' extension property from Duration.Companion
instead.", ReplaceWith("value.minutes", "kotlin.time.Duration.Companion.minutes"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n public fun minutes(value: Double): Duration =
value.toDuration(DurationUnit.MINUTES)\n\n /** Returns a [Duration] representing the specified [value]
number of hours. *\n * @SinceKotlin("1.5")\n * @ExperimentalTime\n * @Deprecated("Use 'Int.hours'
extension property from Duration.Companion instead.", ReplaceWith("value.hours",
"kotlin.time.Duration.Companion.hours"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public
fun hours(value: Int): Duration = value.toDuration(DurationUnit.HOURS)\n\n /** Returns a [Duration]
representing the specified [value] number of hours. *\n * @SinceKotlin("1.5")\n * @ExperimentalTime\n
@Deprecated("Use 'Long.hours' extension property from Duration.Companion instead.",
ReplaceWith("value.hours", "kotlin.time.Duration.Companion.hours"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n public fun hours(value: Long): Duration =
value.toDuration(DurationUnit.HOURS)\n\n /**\n * Returns a [Duration] representing the specified
[value] number of hours.\n *\n * @throws IllegalArgumentException if the provided `Double` [value] is
`NaN`.\n *\n * @SinceKotlin("1.5")\n * @ExperimentalTime\n * @Deprecated("Use 'Double.hours'
extension property from Duration.Companion instead.", ReplaceWith("value.hours",
"kotlin.time.Duration.Companion.hours"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public
fun hours(value: Double): Duration = value.toDuration(DurationUnit.HOURS)\n\n /** Returns a [Duration]
representing the specified [value] number of days. *\n * @SinceKotlin("1.5")\n * @ExperimentalTime\n
@Deprecated("Use 'Int.days' extension property from Duration.Companion instead.", ReplaceWith("value.days",
"kotlin.time.Duration.Companion.days"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public
fun days(value: Int): Duration = value.toDuration(DurationUnit.DAYS)\n\n /** Returns a [Duration]
representing the specified [value] number of days. *\n * @SinceKotlin("1.5")\n * @ExperimentalTime\n
@Deprecated("Use 'Long.days' extension property from Duration.Companion instead.",
ReplaceWith("value.days", "kotlin.time.Duration.Companion.days"))\n
@DeprecatedSinceKotlin(warningSince = "1.6")\n public fun days(value: Long): Duration =
value.toDuration(DurationUnit.DAYS)\n\n /**\n * Returns a [Duration] representing the specified [value]
number of days.\n *\n * @throws IllegalArgumentException if the provided `Double` [value] is `NaN`.\n
*\n * @SinceKotlin("1.5")\n * @ExperimentalTime\n * @Deprecated("Use 'Double.days' extension
property from Duration.Companion instead.", ReplaceWith("value.days",
"kotlin.time.Duration.Companion.days"))\n @DeprecatedSinceKotlin(warningSince = "1.6")\n public
fun days(value: Double): Duration = value.toDuration(DurationUnit.DAYS)\n\n /**\n * Parses a string that
represents a duration and returns the parsed [Duration] value.\n *\n * The following formats are
accepted:\n *\n * - ISO-8601 Duration format, e.g. `P1DT2H3M4.058S`, see [toIsoString] and
[parseIsoString].\n * - The format of string returned by the default [Duration.toString] and `toString` in a
specific unit,\n * e.g. `10s`, `1h 30m` or `-(1h 30m)`.\n *\n * @throws IllegalArgumentException if
the string doesn't represent a duration in any of the supported formats.\n * @sample
samples.time.Durations.parse\n *\n public fun parse(value: String): Duration = try {\n
parseDuration(value, strictIso = false)\n } catch (e: IllegalArgumentException) {\n throw
IllegalArgumentException("Invalid duration string format: '$value'.", e)\n }\n\n /**\n * Parses a
string that represents a duration in ISO-8601 format and returns the parsed [Duration] value.\n *\n *
@throws IllegalArgumentException if the string doesn't represent a duration in ISO-8601 format.\n * @sample
samples.time.Durations.parseIsoString\n *\n public fun parseIsoString(value: String): Duration = try {\n
parseDuration(value, strictIso = true)\n } catch (e: IllegalArgumentException) {\n throw
IllegalArgumentException("Invalid ISO duration string format: '$value'.", e)\n }\n\n /**\n * Parses a

```

```

string that represents a duration and returns the parsed [Duration] value,\n
* or `null` if the string doesn't\n
represent a duration in any of the supported formats.\n
*\n
* The following formats are accepted:\n
*\n
* - ISO-8601 Duration format, e.g. `P1DT2H3M4.058S`, see [toISOString] and [parseISOString].\n
* -\n
The format of string returned by the default [Duration.toString] and `toString` in a specific unit,\n
* e.g. `10s`,\n
`1h 30m` or `-(1h 30m)`.\n
* @sample samples.time.Durations.parse\n
*/\n
public fun\n
parseOrNull(value: String): Duration? = try {\n
 parseDuration(value, strictIso = false)\n
} catch (e:\n
IllegalArgumentExcep\n
tion) {\n
 null\n
}\n
/**\n
* Parses a string that represents a duration in\n
ISO-8601 format and returns the parsed [Duration] value,\n
* or `null` if the string doesn't represent a duration\n
in ISO-8601 format.\n
* @sample samples.time.Durations.parseISOString\n
*/\n
public fun\n
parseISOStringOrNull(value: String): Duration? = try {\n
 parseDuration(value, strictIso = true)\n
} catch\n
(e: IllegalArgumentExcep\n
tion) {\n
 null\n
}\n
}\n
// arithmetic operators\n
/** Returns the\n
negative of this value. */\n
public operator fun unaryMinus(): Duration = durationOf(-value,\n
unitDiscriminator)\n
/**\n
* Returns a duration whose value is the sum of this and [other] duration values.\n
*\n
* @throws IllegalArgumentExcep\n
tion if the operation results in an undefined value for the given arguments,\n
* e.g. when adding infinite durations of different sign.\n
*/\n
public operator fun plus(other: Duration):\n
Duration {\n
 when {\n
 this.isInfinite() -> {\n
 if (other.isFinite() || (this.rawValue xor\n
other.rawValue >= 0))\n
 return this\n
 else\n
 throw\n
IllegalArgumentExcep\n
tion("Summing infinite durations of different signs yields an undefined result.")\n
 }\n
 other.isInfinite() -> return other\n
 }\n
 return when {\n
 this.unitDiscriminator ==\n
other.unitDiscriminator -> {\n
 val result = this.value + other.value // never overflows long, but can\n
overflow long63\n
 when {\n
 isInNanos() ->\n
durationOfNanosNormalized(result)\n
 else ->\n
durationOfMillisNormalized(result)\n
 }\n
 }\n
 this.isInMillis() ->\n
addValuesMixedRanges(this.value, other.value)\n
 else ->\n
addValuesMixedRanges(other.value, this.value)\n
 }\n
}\n
private fun\n
addValuesMixedRanges(thisMillis: Long, otherNanos: Long): Duration {\n
 val otherMillis =\n
nanosToMillis(otherNanos)\n
 val resultMillis = thisMillis + otherMillis\n
 return if (resultMillis in -\n
MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n
 val otherNanoRemainder = otherNanos -\n
millisToNanos(otherMillis)\n
 durationOfNanos(millisToNanos(resultMillis) + otherNanoRemainder)\n
 }\n
 else {\n
 durationOfMillis(resultMillis.coerceIn(-MAX_MILLIS, MAX_MILLIS))\n
 }\n
}\n
/**\n
* Returns a duration whose value is the difference between this and [other] duration values.\n
*\n
* @throws\n
IllegalArgumentExcep\n
tion if the operation results in an undefined value for the given arguments,\n
* e.g. when\n
subtracting infinite durations of the same sign.\n
*/\n
public operator fun minus(other: Duration): Duration =\n
this + (-other)\n
/**\n
* Returns a duration whose value is this duration value multiplied by the given [scale]\n
number.\n
*\n
* @throws IllegalArgumentExcep\n
tion if the operation results in an undefined value for the given\n
arguments,\n
* e.g. when multiplying an infinite duration by zero.\n
*/\n
public operator fun times(scale: Int):\n
Duration {\n
 if (isInfinite()) {\n
 return when {\n
 scale == 0 -> throw\n
IllegalArgumentExcep\n
tion("Multiplying infinite duration by zero yields an undefined result.")\n
 scale > 0\n
-> this\n
 else -> -this\n
 }\n
 }\n
 if (scale == 0) return ZERO\n
 val value = value\n
 val result = value * scale\n
 return if (isInNanos()) {\n
 if (value in (MAX_NANOS /\n
Int.MIN_VALUE)..(-MAX_NANOS / Int.MIN_VALUE)) {\n
 // can't overflow nanos range for any\n
scale\n
 durationOfNanos(result)\n
 } else {\n
 if (result / scale == value) {\n
 durationOfNanosNormalized(result)\n
 } else {\n
 val millis = nanosToMillis(value)\n
 val remNanos = value - millisToNanos(millis)\n
 val resultMillis = millis * scale\n
 val\n
totalMillis = resultMillis + nanosToMillis(remNanos * scale)\n
 if (resultMillis / scale == millis &&\n
totalMillis xor resultMillis >= 0) {\n
 durationOfMillis(totalMillis.coerceIn(-\n
MAX_MILLIS..MAX_MILLIS))\n
 } else {\n
 if (value.sign * scale.sign > 0) INFINITE\n
 } else {\n
 if (result / scale == value) {\n
 durationOfMillis(result.coerceIn(-MAX_MILLIS..MAX_MILLIS))\n
 } else {\n
 if (value.sign

```

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* scale.sign > 0) INFINITE else NEG_INFINITE\n }\n }\n }\n /**\n * Returns a duration whose
value is this duration value multiplied by the given [scale] number.\n * The operation may involve rounding
when the result cannot be represented exactly with a [Double] number.\n * @throws
IllegalArgumentExcepion if the operation results in an undefined value for the given arguments,\n * e.g. when
multiplying an infinite duration by zero.\n */\n public operator fun times(scale: Double): Duration {\n val
intScale = scale.roundToInt()\n if (intScale.toDouble() == scale) {\n return times(intScale)\n }\n val
unit = storageUnit\n val result = toDouble(unit) * scale\n return result.toDuration(unit)\n }\n\n /**\n * Returns a duration whose value is this duration value divided by the given [scale] number.\n * @throws
IllegalArgumentExcepion if the operation results in an undefined value for the given arguments,\n * e.g. when
dividing zero duration by zero.\n */\n public operator fun div(scale: Int): Duration {\n if (scale ==
0) {\n return when {\n isPositive() -> INFINITE\n isNegative() -> NEG_INFINITE\n
 } else -> throw IllegalArgumentExcepion("Dividing zero duration by zero yields an undefined result.")\n }\n if (isInNanos()) {\n return durationOfNanos(value / scale)\n } else {\n if
(isInfinite())\n return this * scale.sign\n val result = value / scale\n if (result in -
MAX_NANOS_IN_MILLIS..MAX_NANOS_IN_MILLIS) {\n val rem = millisToNanos(value - (result *
scale)) / scale\n return durationOfNanos(millisToNanos(result) + rem)\n }\n return
durationOfMillis(result)\n }\n }\n\n /**\n * Returns a duration whose value is this duration value divided
by the given [scale] number.\n * @throws IllegalArgumentExcepion if the operation results in an
undefined value for the given arguments,\n * e.g. when dividing an infinite duration by infinity or zero duration
by zero.\n */\n public operator fun div(scale: Double): Duration {\n val intScale = scale.roundToInt()\n
if (intScale.toDouble() == scale && intScale != 0) {\n return div(intScale)\n }\n val unit =
storageUnit\n val result = toDouble(unit) / scale\n return result.toDuration(unit)\n }\n\n /** Returns a
number that is the ratio of this and [other] duration values. */\n public operator fun div(other: Duration): Double
{\n val coarserUnit = maxOf(this.storageUnit, other.storageUnit)\n return this.toDouble(coarserUnit) /
other.toDouble(coarserUnit)\n }\n\n /** Returns true, if the duration value is less than zero. */\n public fun
isNegative(): Boolean = rawValue < 0\n\n /** Returns true, if the duration value is greater than zero. */\n public
fun isPositive(): Boolean = rawValue > 0\n\n /** Returns true, if the duration value is infinite. */\n public fun
isInfinite(): Boolean = rawValue == INFINITE.rawValue || rawValue == NEG_INFINITE.rawValue\n\n /**
Returns true, if the duration value is finite. */\n public fun isFinite(): Boolean = !isInfinite()\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 {\n val compareBits =
this.rawValue xor other.rawValue\n if (compareBits < 0 || compareBits.toInt() and 1 == 0) // different signs or
same sign/same range\n return this.rawValue.compareTo(other.rawValue)\n // same sign/different
ranges\n val r = this.unitDiscriminator - other.unitDiscriminator // compare ranges\n return if (isNegative())
-r else r\n }\n\n /**\n * Splits this duration into days, hours, minutes,
seconds, and nanoseconds and executes the given [action] with these components.\n * The result of [action] is
returned as the result of this function.\n * - `nanoseconds` represents the whole number of nanoseconds in
this duration, and its absolute value is less than 1_000_000_000;\n * - `seconds` represents the whole number of
seconds in this duration, and its 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 * Infinite durations are represented as either [Long.MAX_VALUE] days, or
[Long.MIN_VALUE] days (depending on the sign of infinity),\n * and zeroes in the lower components.\n */\n public inline fun <T> toComponents(action: (days: Long, hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -
> T): T {\n contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n return
action(inWholeDays, hoursComponent, minutesComponent, secondsComponent, nanosecondsComponent)\n }\n\n /**\n * Splits this duration into hours, minutes, seconds, and nanoseconds and executes the given [action] with
these components.\n * The result of [action] is returned as the result of this function.\n * - `nanoseconds`

```

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represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n
* - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\n
* - `minutes` represents the whole number of minutes in this duration, and its absolute value is less than 60;\n
* - `hours` represents the whole number of hours in this duration.\n
*\n
* Infinite durations are represented as either [Long.MAX_VALUE] hours, or [Long.MIN_VALUE] hours (depending on the sign of infinity),\n
* and zeroes in the lower components.\n
*/\n
public inline fun <T> toComponents(action: (hours: Long, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T {\n
 contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n
 return action(inWholeHours, minutesComponent, secondsComponent, nanosecondsComponent)\n
}\n
/>\n
* Splits this duration into minutes, seconds, and nanoseconds and executes the given [action] with these components.\n
* The result of [action] is returned as the result of this function.\n
*\n
* - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n
* - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\n
* - `minutes` represents the whole number of minutes in this duration.\n
*\n
* Infinite durations are represented as either [Long.MAX_VALUE] minutes, or [Long.MIN_VALUE] minutes (depending on the sign of infinity),\n
* and zeroes in the lower components.\n
*/\n
public inline fun <T> toComponents(action: (minutes: Long, seconds: Int, nanoseconds: Int) -> T): T {\n
 contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n
 return action(inWholeMinutes, secondsComponent, nanosecondsComponent)\n
}\n
/>\n
* Splits this duration into seconds, and nanoseconds and executes the given [action] with these components.\n
* The result of [action] is returned as the result of this function.\n
*\n
* - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n
* - `seconds` represents the whole number of seconds in this duration.\n
*\n
* Infinite durations are represented as either [Long.MAX_VALUE] seconds, or [Long.MIN_VALUE] seconds (depending on the sign of infinity),\n
* and zero nanoseconds.\n
*/\n
public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) -> T): T {\n
 contract { callsInPlace(action, InvocationKind.EXACTLY_ONCE) }\n
 return action(inWholeSeconds, nanosecondsComponent)\n
}\n
/>\n
@PublishedApi\n
internal val hoursComponent: Int\n
 get() = if (isInfinite()) 0 else (inWholeHours % 24).toInt()\n
/>\n
@PublishedApi\n
internal val minutesComponent: Int\n
 get() = if (isInfinite()) 0 else (inWholeMinutes % 60).toInt()\n
/>\n
@PublishedApi\n
internal val secondsComponent: Int\n
 get() = if (isInfinite()) 0 else (inWholeSeconds % 60).toInt()\n
/>\n
@PublishedApi\n
internal val nanosecondsComponent: Int\n
 get() = when {\n
 isInfinite() -> 0\n
 isInMillis() -> millisToNanos(value % 1_000).toInt()\n
 else -> (value % 1_000_000_000).toInt()\n
 }\n
/>\n
// conversion to units\n
/>\n
* Returns the value of this duration expressed as a [Double] number of the specified [unit].\n
*\n
* The operation may involve rounding when the result cannot be represented exactly with a [Double] number.\n
*\n
* An infinite duration value is converted either to [Double.POSITIVE_INFINITY] or [Double.NEGATIVE_INFINITY] depending on its sign.\n
*/\n
public fun toDouble(unit: DurationUnit): Double {\n
 return when (rawValue) {\n
 INFINITE.rawValue -> Double.POSITIVE_INFINITY\n
 NEG_INFINITE.rawValue -> Double.NEGATIVE_INFINITY\n
 else -> {\n
 // TODO: whether it's ok to convert to Double before scaling\n
 convertDurationUnit(value.toDouble(), storageUnit, unit)\n
 }\n
 }\n
/>\n
/>\n
* Returns the value of this duration expressed as a [Long] number of the specified [unit].\n
*\n
* If the result doesn't fit in the range of [Long] type, it is coerced into that range:\n
* - [Long.MIN_VALUE] is returned if it's less than `Long.MIN_VALUE`,\n
* - [Long.MAX_VALUE] is returned if it's greater than `Long.MAX_VALUE`.\n
*\n
* An infinite duration value is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n
*/\n
public fun toLong(unit: DurationUnit): Long {\n
 return when (rawValue) {\n
 INFINITE.rawValue -> Long.MAX_VALUE\n
 NEG_INFINITE.rawValue -> Long.MIN_VALUE\n
 else -> convertDurationUnit(value, storageUnit, unit)\n
 }\n
/>\n
/>\n
* Returns the value of this duration expressed as an [Int] number of the specified [unit].\n
*\n
* If the result doesn't fit in the range of [Int] type, it is coerced into that range:\n
* - [Int.MIN_VALUE] is returned if it's less than `Int.MIN_VALUE`,\n
* - [Int.MAX_VALUE] is returned if it's greater than `Int.MAX_VALUE`.\n
*\n
* An infinite duration value is

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converted either to [Int.MAX_VALUE] or [Int.MIN_VALUE] depending on its sign.\n */\n public fun
toInt(unit: DurationUnit): Int =\n toLong(unit).coerceIn(Int.MIN_VALUE.toLong(),
Int.MAX_VALUE.toLong()).toInt()\n\n /** The value of this duration expressed as a [Double] number of days.
*/\n @ExperimentalTime\n @Deprecated("Use inWholeDays property instead or convert toDouble(DAYS) if a
double value is required.", ReplaceWith("toDouble(DurationUnit.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
 @ExperimentalTime\n @Deprecated("Use inWholeHours property instead or convert toDouble(HOURS) if a
double value is required.", ReplaceWith("toDouble(DurationUnit.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 @ExperimentalTime\n @Deprecated("Use inWholeMinutes property instead or convert
toDouble(MINUTES) if a double value is required.", ReplaceWith("toDouble(DurationUnit.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 @ExperimentalTime\n @Deprecated("Use inWholeSeconds
property instead or convert toDouble(SECONDS) if a double value is required.",
ReplaceWith("toDouble(DurationUnit.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 @ExperimentalTime\n @Deprecated("Use inWholeMilliseconds property instead or convert
toDouble(MILLISECONDS) if a double value is required.",
ReplaceWith("toDouble(DurationUnit.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 @ExperimentalTime\n @Deprecated("Use inWholeMicroseconds property instead or
convert toDouble(MICROSECONDS) if a double value is required.",
ReplaceWith("toDouble(DurationUnit.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 @ExperimentalTime\n @Deprecated("Use inWholeNanoseconds property instead or convert
toDouble(NANOSECONDS) if a double value is required.",
ReplaceWith("toDouble(DurationUnit.NANOSECONDS)"))\n public val inNanoseconds: Double get() =
toDouble(DurationUnit.NANOSECONDS)\n\n\n /**\n * The value of this duration expressed as a [Long]
number of days.\n */\n * An infinite duration value is converted either to [Long.MAX_VALUE] or
[Long.MIN_VALUE] depending on its sign.\n */\n public val inWholeDays: Long\n get() =
toLong(DurationUnit.DAYS)\n\n /**\n * The value of this duration expressed as a [Long] number of hours.\n
*/\n * An infinite duration value is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending
on its sign.\n */\n public val inWholeHours: Long\n get() = toLong(DurationUnit.HOURS)\n\n /**\n *
The value of this duration expressed as a [Long] number of minutes.\n */\n * An infinite duration value is
converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n */\n public val
inWholeMinutes: Long\n get() = toLong(DurationUnit.MINUTES)\n\n /**\n * The value of this duration
expressed as a [Long] number of seconds.\n */\n * An infinite duration value is converted either to
[Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n */\n public val inWholeSeconds:
Long\n get() = toLong(DurationUnit.SECONDS)\n\n /**\n * The value of this duration expressed as a
[Long] number of milliseconds.\n */\n * An infinite duration value is converted either to [Long.MAX_VALUE]
or [Long.MIN_VALUE] depending on its sign.\n */\n public val inWholeMilliseconds: Long\n get() {\n
 return if (isInMillis() && isFinite()) value else toLong(DurationUnit.MILLISECONDS)\n }\n\n /**\n *
The value of this duration expressed as a [Long] number of microseconds.\n */\n * If the result doesn't fit in the
range of [Long] type, it is coerced into that range:\n * - [Long.MIN_VALUE] is returned if it's less than
`Long.MIN_VALUE`,\n * - [Long.MAX_VALUE] is returned if it's greater than `Long.MAX_VALUE`.\n */\n
 * An infinite duration value is converted either to [Long.MAX_VALUE] or [Long.MIN_VALUE] depending on
its sign.\n */\n public val inWholeMicroseconds: Long\n get() =
toLong(DurationUnit.MICROSECONDS)\n\n /**\n * The value of this duration expressed as a [Long] number

```

```

of nanoseconds.\n * \n * If the result doesn't fit in the range of [Long] type, it is coerced into that range:\n * -
[Long.MIN_VALUE] is returned if it's less than `Long.MIN_VALUE`,\n * - [Long.MAX_VALUE] is returned if
it's greater than `Long.MAX_VALUE`.\n * \n * An infinite duration value is converted either to
[Long.MAX_VALUE] or [Long.MIN_VALUE] depending on its sign.\n * / \n public val inWholeNanoseconds:
Long\n get() {\n val value = value\n return when {\n isInNanos() -> value\n
value > Long.MAX_VALUE / NANOS_IN_MILLIS -> Long.MAX_VALUE\n value <
Long.MIN_VALUE / NANOS_IN_MILLIS -> Long.MIN_VALUE\n else -> millisToNanos(value)\n
}\n }\n // shortcuts\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 @ExperimentalTime\n @Deprecated("Use
inWholeNanoseconds property instead.", ReplaceWith("this.inWholeNanoseconds"))\n public fun
toLongNanoseconds(): Long = inWholeNanoseconds\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 @ExperimentalTime\n
@Deprecated("Use inWholeMilliseconds property instead.", ReplaceWith("this.inWholeMilliseconds"))\n
public fun toLongMilliseconds(): Long = inWholeMilliseconds\n /**\n * Returns a string representation of
this duration value\n * expressed as a combination of numeric components, each in its own unit.\n * \n * Each
component is a number followed by the unit abbreviated name: `d`, `h`, `m`, `s`, `h`, `d 12h`, `1h 0m
30.340s`.\n * The last component, usually seconds, can be a number with a fractional part.\n * \n * If the
duration is less than a second, it is represented as a single number\n * with one of sub-second units: `ms`
(milliseconds), `us` (microseconds), or `ns` (nanoseconds):\n * `140.884ms`, `500us`, `24ns`.\n * \n * A
negative duration is prefixed with `-` sign and, if it consists of multiple components, surrounded with parentheses:\n
* `-12m` and `-(1h 30m)`.\n * \n * Special cases:\n * - an infinite duration is formatted as `Infinity` or
`-Infinity` without a unit.\n * \n * It's recommended to use [toIsoString] that uses more strict ISO-8601
format instead of this `toString` when you want to convert a duration to a string in cases of serialization,
interchange, etc.\n * \n * @sample samples.time.Durations.toStringDefault\n * / \n override fun toString():
String = when (rawValue) {\n OL -> "0s"\n INFINITE.rawValue -> "Infinity"\n
NEG_INFINITE.rawValue -> "-Infinity"\n else -> {\n val isNegative = isNegative()\n
buildString {\n if (isNegative) append('-')\n absoluteValue.toComponents { days, hours, minutes,
seconds, nanoseconds ->\n val hasDays = days != 0\n val hasHours = hours != 0\n
val hasMinutes = minutes != 0\n val hasSeconds = seconds != 0 || nanoseconds != 0\n var
components = 0\n if (hasDays) {\n append(days).append('d')\n
components++\n }\n if (hasHours || (hasDays && (hasMinutes || hasSeconds))) {\n
if (components++ > 0) append(' ')\n append(hours).append('h')\n }\n if
(hasMinutes || (hasSeconds && (hasHours || hasDays))) {\n if (components++ > 0) append(' ')\n
append(minutes).append('m')\n }\n if (hasSeconds) {\n if
(components++ > 0) append(' ')\n when {\n seconds != 0 || hasDays || hasHours ||
hasMinutes ->\n appendFractional(seconds, nanoseconds, 9, "s", isoZeroes = false)\n
nanoseconds >= 1_000_000 ->\n appendFractional(nanoseconds / 1_000_000, nanoseconds
% 1_000_000, 6, "ms", isoZeroes = false)\n nanoseconds >= 1_000 ->\n
appendFractional(nanoseconds / 1_000, nanoseconds % 1_000, 3, "us", isoZeroes = false)\n else -
->\n append(nanoseconds).append("ns")\n }\n }\n }\n if
(isNegative && components > 1) insert(1, ' ').append('')\n }\n }\n }\n }\n private fun
StringBuilder.appendFractional(whole: Int, fractional: Int, fractionalSize: Int, unit: String, isoZeroes: Boolean) {\n
append(whole)\n if (fractional != 0) {\n append('.')\n val fracString =
fractional.toString().padStart(fractionalSize, '0')\n val nonZeroDigits = fracString.indexOfLast { it != '0' } +

```



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number of nanoseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Int.nanoseconds'
extension property from Duration.Companion instead.", ReplaceWith("this.nanoseconds",
"\"kotlin.time.Duration.Companion.nanoseconds\""))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Int.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n/** Returns a [Duration] equal to this
[Long] number of nanoseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use
'Long.nanoseconds' extension property from Duration.Companion instead.", ReplaceWith("this.nanoseconds",
"\"kotlin.time.Duration.Companion.nanoseconds\""))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Long.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n/**\n * Returns a [Duration] equal to this
[Double] number of nanoseconds.\n * \n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n
*\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Double.nanoseconds' extension property
from Duration.Companion instead.", ReplaceWith("this.nanoseconds",
"\"kotlin.time.Duration.Companion.nanoseconds\""))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Double.nanoseconds get() = toDuration(DurationUnit.NANOSECONDS)\n\n\n/** Returns a [Duration] equal to
this [Int] number of microseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use
'Int.microseconds' extension property from Duration.Companion instead.", ReplaceWith("this.microseconds",
"\"kotlin.time.Duration.Companion.microseconds\""))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Int.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n\n/** Returns a [Duration] equal to this
[Long] number of microseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use
'Long.microseconds' extension property from Duration.Companion instead.", ReplaceWith("this.microseconds",
"\"kotlin.time.Duration.Companion.microseconds\""))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Long.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n\n/**\n * Returns a [Duration] equal to
this [Double] number of microseconds.\n * \n * @throws IllegalArgumentException if this [Double] value is
`NaN`.\n * \n *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Double.microseconds' extension
property from Duration.Companion instead.", ReplaceWith("this.microseconds",
"\"kotlin.time.Duration.Companion.microseconds\""))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Double.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n\n/** Returns a [Duration] equal to
this [Int] number of milliseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use
'Int.milliseconds' extension property from Duration.Companion instead.", ReplaceWith("this.milliseconds",
"\"kotlin.time.Duration.Companion.milliseconds\""))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Int.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n\n/** Returns a [Duration] equal to this
[Long] number of milliseconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use
'Long.milliseconds' extension property from Duration.Companion instead.", ReplaceWith("this.milliseconds",
"\"kotlin.time.Duration.Companion.milliseconds\""))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Long.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n\n/**\n * Returns a [Duration] equal to this
[Double] number of milliseconds.\n * \n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n
*\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Double.milliseconds' extension property
from Duration.Companion instead.", ReplaceWith("this.milliseconds",
"\"kotlin.time.Duration.Companion.milliseconds\""))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Double.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n\n/** Returns a [Duration] equal to this
[Int] number of seconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Int.seconds'
extension property from Duration.Companion instead.", ReplaceWith("this.seconds",
"\"kotlin.time.Duration.Companion.seconds\""))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Int.seconds get() = toDuration(DurationUnit.SECONDS)\n\n\n/** Returns a [Duration] equal to this [Long] number of
seconds. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Long.seconds' extension property
from Duration.Companion instead.", ReplaceWith("this.seconds",
"\"kotlin.time.Duration.Companion.seconds\""))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic val
Long.seconds get() = toDuration(DurationUnit.SECONDS)\n\n\n/**\n * Returns a [Duration] equal to this [Double]
number of seconds.\n * \n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Double.seconds' extension property from
Duration.Companion instead.", ReplaceWith("this.seconds"),
"\"kotlin.time.Duration.Companion.seconds\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\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\n@Deprecated("Use 'Int.minutes' extension
property from Duration.Companion instead.", ReplaceWith("this.minutes"),
"\"kotlin.time.Duration.Companion.minutes\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Int.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/** Returns a [Duration] equal to this [Long] number of
minutes. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Long.minutes' extension property
from Duration.Companion instead.", ReplaceWith("this.minutes"),
"\"kotlin.time.Duration.Companion.minutes\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Long.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/**\n * Returns a [Duration] equal to this [Double]
number of minutes.\n * \n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n
*\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Double.minutes' extension property from
Duration.Companion instead.", ReplaceWith("this.minutes"),
"\"kotlin.time.Duration.Companion.minutes\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Double.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/** Returns a [Duration] equal to this [Int]
number of hours. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Int.hours' extension
property from Duration.Companion instead.", ReplaceWith("this.hours"),
"\"kotlin.time.Duration.Companion.hours\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Int.hours get() = toDuration(DurationUnit.HOURS)\n\n/** Returns a [Duration] equal to this [Long] number of
hours. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Long.hours' extension property from
Duration.Companion instead.", ReplaceWith("this.hours"),
"\"kotlin.time.Duration.Companion.hours\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Long.hours get() = toDuration(DurationUnit.HOURS)\n\n/**\n * Returns a [Duration] equal to this [Double]
number of hours.\n * \n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n
*\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Double.hours' extension property from
Duration.Companion instead.", ReplaceWith("this.hours"),
"\"kotlin.time.Duration.Companion.hours\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Double.hours get() = toDuration(DurationUnit.HOURS)\n\n/** Returns a [Duration] equal to this [Int] number of
days. *\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Int.days' extension property from
Duration.Companion instead.", ReplaceWith("this.days"),
"\"kotlin.time.Duration.Companion.days\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val Int.days
get() = toDuration(DurationUnit.DAYS)\n\n/** Returns a [Duration] equal to this [Long] number of days.
*\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Long.days' extension property from
Duration.Companion instead.", ReplaceWith("this.days"),
"\"kotlin.time.Duration.Companion.days\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Long.days get() = toDuration(DurationUnit.DAYS)\n\n/**\n * Returns a [Duration] equal to this [Double] number
of days.\n * \n * @throws IllegalArgumentException if this [Double] value is `NaN`.\n
*\n@SinceKotlin("1.3")\n@ExperimentalTime\n@Deprecated("Use 'Double.days' extension property from
Duration.Companion instead.", ReplaceWith("this.days"),
"\"kotlin.time.Duration.Companion.days\")\n@DeprecatedSinceKotlin(warningSince = \"1.5\")\npublic val
Double.days get() = toDuration(DurationUnit.DAYS)\n\n/** Returns a duration whose value is the specified
[duration] value multiplied by this number.
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalTime::class)\n@kotlin.internal.InlineOnly\npublic
inline operator fun Int.times(duration: Duration): Duration = duration * this\n\n/**\n * Returns a duration whose
value is the specified [duration] value multiplied by this number.\n * \n * The operation may involve rounding when
the result cannot be represented exactly with a [Double] number.\n * \n * @throws IllegalArgumentException if the

```



The ranges are chosen so that they are:  
 - symmetric relative to zero: this greatly simplifies operations with sign, e.g. unaryMinus and minus.  
 - non-overlapping, but adjacent: the first value that doesn't fit in nanos range, can be exactly represented in millis.  
 - internal const val NANOS\_IN\_MILLIS = 1\_000\_000 // maximum number duration can store in nanosecond range  
 - internal const val MAX\_NANOS = Long.MAX\_VALUE / 2 / NANOS\_IN\_MILLIS \* NANOS\_IN\_MILLIS - 1 // ends in ...\_999\_999  
 - maximum number duration can store in millisecond range, also encodes an infinite value  
 - internal const val MAX\_MILLIS = Long.MAX\_VALUE / 2 / MAX\_NANOS expressed in milliseconds  
 - private const val MAX\_NANOS\_IN\_MILLIS = MAX\_NANOS / NANOS\_IN\_MILLIS  
 - private fun nanosToMillis(nanos: Long): Long = nanos / NANOS\_IN\_MILLIS  
 - private fun millisToNanos(millis: Long): Long = millis \* NANOS\_IN\_MILLIS  
 - private fun durationOfNanos(normalNanos: Long) = Duration(normalNanos shl 1)  
 - private fun durationOfMillis(normalMillis: Long) = Duration((normalMillis shl 1) + 1)  
 - private fun durationOf(normalValue: Long, unitDiscriminator: Int) = Duration((normalValue shl 1) + unitDiscriminator)  
 - private fun durationOfNanosNormalized(nanos: Long) = if (nanos in -MAX\_NANOS..MAX\_NANOS) { durationOfNanos(nanos) } else { durationOfMillis(nanosToMillis(nanos)) }  
 - private fun durationOfMillisNormalized(millis: Long) = if (millis in -MAX\_NANOS\_IN\_MILLIS..MAX\_NANOS\_IN\_MILLIS) { durationOfNanos(millisToNanos(millis)) } else { durationOfMillis(millis.coerceIn(-MAX\_MILLIS, MAX\_MILLIS)) }  
 - internal expect val durationAssertionsEnabled: Boolean  
 - internal expect fun formatToExactDecimals(value: Double, decimals: Int): String  
 - internal expect fun formatUpToDecimals(value: Double, decimals: Int): String, "/\*  
 - Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.  
 - \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.  
 - \*/  
 - @file:kotlin.jvm.JvmName("UnsignedKt")  
 - package kotlin  
 - @PublishedApi  
 - internal fun uintCompare(v1: Int, v2: Int): Int = (v1 xor Int.MIN\_VALUE).compareTo(v2 xor Int.MIN\_VALUE)  
 - @PublishedApi  
 - internal fun ulongCompare(v1: Long, v2: Long): Int = (v1 xor Long.MIN\_VALUE).compareTo(v2 xor Long.MIN\_VALUE)  
 - @PublishedApi  
 - internal fun uintDivide(v1: UInt, v2: UInt): UInt = (v1.toLong() / v2.toLong()).toUInt()  
 - @PublishedApi  
 - internal fun uintRemainder(v1: UInt, v2: UInt): UInt = (v1.toLong() % v2.toLong()).toUInt()  
 - // Division and remainder are based on Guava's UnsignedLongs implementation  
 - // Copyright 2011 The Guava Authors  
 - @PublishedApi  
 - internal fun ulongDivide(v1: ULong, v2: ULong): ULong { val dividend = v1.toLong() val divisor = v2.toLong() if (divisor < 0) { // i.e., divisor >= 2^63 return if (v1 < v2) ULong(0) else ULong(1) } // Optimization - use signed division if both dividend and divisor < 2^63 if (dividend >= 0) { return ULong(dividend / divisor) } // Otherwise, approximate the quotient, check, and correct if necessary. val quotient = ((dividend ushr 1) / divisor) shl 1 val rem = dividend - quotient \* divisor return ULong(quotient + if (ULong(rem) >= ULong(divisor)) 1 else 0) }  
 - @PublishedApi  
 - internal fun ulongRemainder(v1: ULong, v2: ULong): ULong { val dividend = v1.toLong() val divisor = v2.toLong() if (divisor < 0) { // i.e., divisor >= 2^63 return if (v1 < v2) { v1 // dividend < divisor } else { v1 - v2 // dividend >= divisor } } // Optimization - use signed modulus if both dividend and divisor < 2^63 if (dividend >= 0) { return ULong(dividend % divisor) } // Otherwise, approximate the quotient, check, and correct if necessary. val quotient = ((dividend ushr 1) / divisor) shl 1 val rem = dividend - quotient \* divisor return ULong(rem - if (ULong(rem) >= ULong(divisor)) divisor else 0) }  
 - @PublishedApi  
 - internal fun doubleToUInt(v: Double): UInt = when { v.isNaN() -> 0u v <= UInt.MIN\_VALUE.toDouble() -> UInt.MIN\_VALUE v >= UInt.MAX\_VALUE.toDouble() -> UInt.MAX\_VALUE v <= Int.MAX\_VALUE -> v.toInt().toUInt() else -> (v - Int.MAX\_VALUE).toInt().toUInt() + Int.MAX\_VALUE.toUInt() // Int.MAX\_VALUE < v < UInt.MAX\_VALUE }  
 - @PublishedApi  
 - internal fun doubleToULong(v: Double): ULong = when { v.isNaN() -> 0u v <= ULong.MIN\_VALUE.toDouble() -> ULong.MIN\_VALUE v >= ULong.MAX\_VALUE.toDouble() -> ULong.MAX\_VALUE v < Long.MAX\_VALUE -> v.toLong().toULong() // Real values from Long.MAX\_VALUE to (Long.MAX\_VALUE + 1) are not representable in Double, so don't handle them. 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\n@PublishedApi\ninternal fun
ulongToDouble(v: Long): Double = (v ushr 11).toDouble() * 2048 + (v and 2047)\n\n\ninternal fun
ulongToString(v: Long): String = ulongToString(v, 10)\n\n\ninternal fun ulongToString(v: Long, base: Int): String {\n
if (v >= 0) return v.toString(base)\n\n var quotient = ((v ushr 1) / base) shl 1\n var rem = v - quotient * base\n
if (rem >= base) {\n rem -= base\n quotient += 1\n }\n return quotient.toString(base) +
rem.toString(base)\n}\n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("\CollectionsKt")\n\npackage
kotlin.collections\n\n/**\n * Given an [iterator] function constructs an [Iterable] instance that returns values through
the [Iterator]\n * provided by that function.\n * @sample samples.collections.Iterables.Building.iterable\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable(crossinline iterator: () -> Iterator<T>): Iterable<T>
= object : Iterable<T> {\n override fun iterator(): Iterator<T> = iterator()\n}\n\n/**\n * A wrapper over another
[Iterable] (or any other object that can produce an [Iterator]) that returns\n * an indexing iterator.\n */\n\ninternal class
IndexingIterable<out T>(private val iteratorFactory: () -> Iterator<T>) : Iterable<IndexedValue<T>> {\n override
fun iterator(): Iterator<IndexedValue<T>> = IndexingIterator(iteratorFactory())\n}\n\n\n/**\n * Returns the size of
this iterable if it is known, or `null` otherwise.\n */\n\n@PublishedApi\ninternal fun <T>
Iterable<T>.collectionSizeOrNull(): Int? = if (this is Collection<*>) this.size else null\n\n\n/**\n * Returns the size of
this iterable if it is known, or the specified [default] value otherwise.\n */\n\n@PublishedApi\ninternal fun <T>
Iterable<T>.collectionSizeOrDefault(default: Int): Int = if (this is Collection<*>) this.size else default\n\n\n\n/**\n *
Returns a single list of all elements from all collections in the given collection.\n * @sample
samples.collections.Iterables.Operations.flattenIterable\n */\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/**\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 */\n\npublic fun <T, R> Iterable<Pair<T, R>>.unzip():
Pair<List<T>, List<R>> {\n val expectedSize = collectionSizeOrDefault(10)\n val listT =
ArrayList<T>(expectedSize)\n val listR = ArrayList<R>(expectedSize)\n for (pair in this) {\n
listT.add(pair.first)\n listR.add(pair.second)\n }\n return listT to listR\n}\n\n", "/*\n * Copyright 2010-2020
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("\SequencesKt")\n\npackage
kotlin.sequences\n\nimport kotlin.random.Random\n\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/**\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/**\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/**\n * Returns an empty sequence.\n */\n\npublic fun <T> emptySequence():
Sequence<T> = EmptySequence\n\n\nprivate object EmptySequence : Sequence<Nothing>,\n
DropTakeSequence<Nothing> {\n override fun iterator(): Iterator<Nothing> = EmptyIterator\n override fun
drop(n: Int) = EmptySequence\n override fun take(n: Int) = EmptySequence\n}\n\n\n\n/**\n * Returns this sequence if

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it's not `null` and the empty sequence otherwise.\n * @sample
samples.collections.Sequences.Usage.sequenceOrElse\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>?.orElse():
Sequence<T> = this ?: emptySequence()\n\n/**\n * Returns a sequence that iterates through the elements either of
this sequence\n * or, if this sequence turns out to be empty, of the sequence returned by [defaultValue] function.\n
*\n * @sample samples.collections.Sequences.Usage.sequenceIfEmpty\n *\n@SinceKotlin("1.3")\npublic fun
<T> Sequence<T>.ifEmpty(defaultValue: () -> Sequence<T>): Sequence<T> = sequence {\n val iterator =
this@ifEmpty.iterator()\n if (iterator.hasNext()) {\n yieldAll(iterator)\n } else {\n
yieldAll(defaultValue())\n }\n}\n\n/**\n * Returns a sequence of all elements from all sequences in this
sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Sequences.Transformations.flattenSequenceOfSequences\n *\npublic fun <T>
Sequence<Sequence<T>>.flatten(): Sequence<T> = flatten { it.iterator() }\n\n/**\n * Returns a sequence of all
elements from all iterables in this sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n *
@sample samples.collections.Sequences.Transformations.flattenSequenceOfLists\n
*\n@kotlin.jvm.JvmName("flattenSequenceOfIterable")\npublic fun <T> Sequence<Iterable<T>>.flatten():
Sequence<T> = flatten { it.iterator() }\n\nprivate fun <T, R> Sequence<T>.flatten(iterator: (T) -> Iterator<R>):
Sequence<R> {\n if (this is TransformingSequence<*, *>) {\n return (this as TransformingSequence<*,
T>).flatten(iterator)\n }\n return FlatteningSequence(this, { it }, iterator)\n}\n\n/**\n * Returns a pair of lists,
where\n * *first* list is built from the first values of each pair from this sequence,\n * *second* list is built from the
second values of each pair from this sequence.\n *\n * The operation is _terminal_.\n *\n * @sample
samples.collections.Sequences.Transformations.unzip\n *\npublic fun <T, R> Sequence<Pair<T, R>>.unzip():
Pair<List<T>, List<R>> {\n val listT = ArrayList<T>()\n val listR = ArrayList<R>()\n for (pair in this) {\n
listT.add(pair.first)\n listR.add(pair.second)\n }\n return listT to listR\n}\n\n/**\n * Returns a sequence that
yields elements of this sequence randomly shuffled.\n *\n * Note that every iteration of the sequence returns
elements in a different order.\n *\n * The operation is _intermediate_ and _stateful_.\n
*\n@SinceKotlin("1.4")\npublic fun <T> Sequence<T>.shuffled(): Sequence<T> = shuffled(Random)\n\n/**\n * Returns a sequence that yields elements of this sequence randomly shuffled\n * using the specified [random]
instance as the source of randomness.\n *\n * Note that every iteration of the sequence returns elements in a
different order.\n *\n * The operation is _intermediate_ and _stateful_.\n *\n@SinceKotlin("1.4")\npublic fun <T>
Sequence<T>.shuffled(random: Random): Sequence<T> = sequence<T> {\n val buffer = toMutableList()\n
while (buffer.isNotEmpty()) {\n val j = random.nextInt(buffer.size)\n val last = buffer.removeLast()\n
val value = if (j < buffer.size) buffer.set(j, last) else last\n yield(value)\n }\n}\n\n/**\n * A sequence that
returns the values from the underlying [sequence] that either match or do not match\n * the specified [predicate].\n
*\n * @param sendWhen If `true`, values for which the predicate returns `true` are returned. Otherwise,\n * values
for which the predicate returns `false` are returned\n *\n@internal class FilteringSequence<T>(\n private val
sequence: Sequence<T>,\n private val sendWhen: Boolean = true,\n private val predicate: (T) -> Boolean\n) :
Sequence<T> {\n\n override fun iterator(): Iterator<T> = object : Iterator<T> {\n val iterator =
sequence.iterator()\n var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n var nextItem: T?
= null\n\n private fun calcNext() {\n while (iterator.hasNext()) {\n val item = iterator.next()\n
if (predicate(item) == sendWhen) {\n nextItem = item\n nextState = 1\n
return\n }\n }\n nextState = 0\n }\n\n override fun next(): T {\n if (nextState
== -1)\n calcNext()\n if (nextState == 0)\n throw NoSuchElementException()\n val
result = nextItem\n nextItem = null\n nextState = -1\n @Suppress("UNCHECKED_CAST")\n
return result as T\n }\n\n override fun hasNext(): Boolean {\n if (nextState == -1)\n
calcNext()\n return nextState == 1\n }\n }\n}\n\n/**\n * A sequence which returns the results of
applying the given [transformer] function to the values\n * in the underlying [sequence].\n *\n@internal class
TransformingSequence<T, R>\nconstructor(private val sequence: Sequence<T>, private val transformer: (T) -> R) :
Sequence<R> {\n override fun iterator(): Iterator<R> = object : Iterator<R> {\n val iterator =

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sequence.iterator()\n override fun next(): R {\n return transformer(iterator.next())\n }\n\n override fun hasNext(): Boolean {\n return iterator.hasNext()\n }\n\n internal fun <E>\n flatten(iterator: (R) -> Iterator<E>): Sequence<E> {\n return FlatteningSequence<T, R, E>(sequence,\n transformer, iterator)\n }\n\n /**\n * A sequence which returns the results of applying the given [transformer]\n * function to the values in the underlying [sequence], where the transformer function takes the index of the value\n * in the underlying sequence along with the value itself.\n */\n internal class TransformingIndexedSequence<T,\n R>\n constructor(private val sequence: Sequence<T>, private val transformer: (Int, T) -> R) : Sequence<R> {\n override fun iterator(): Iterator<R> = object : Iterator<R> {\n val iterator = sequence.iterator()\n var index = 0\n override fun next(): R {\n return transformer(checkIndexOverflow(index++), iterator.next())\n }\n override fun hasNext(): Boolean {\n return iterator.hasNext()\n }\n }\n\n /**\n * A sequence which combines values from the underlying [sequence] with their indices and returns them as\n * [IndexedValue] objects.\n */\n internal class IndexingSequence<T>\n constructor(private val sequence:\n Sequence<T>) : Sequence<IndexedValue<T>> {\n override fun iterator(): Iterator<IndexedValue<T>> = object :\n Iterator<IndexedValue<T>> {\n val iterator = sequence.iterator()\n var index = 0\n override fun next():\n IndexedValue<T> {\n return IndexedValue(checkIndexOverflow(index++), iterator.next())\n }\n }\n override fun hasNext(): Boolean {\n return iterator.hasNext()\n }\n }\n\n /**\n * A sequence which\n * takes the values from two parallel underlying sequences, passes them to the given [transform] function and\n * returns the values returned by that function. The sequence stops returning values as soon as one of the\n * underlying sequences stops returning values.\n */\n internal class MergingSequence<T1, T2, V>\n constructor(\n private val sequence1: Sequence<T1>,\n private val sequence2: Sequence<T2>,\n private val transform: (T1,\n T2) -> V) : Sequence<V> {\n override fun iterator(): Iterator<V> = object : Iterator<V> {\n val iterator1 =\n sequence1.iterator()\n val iterator2 = sequence2.iterator()\n override fun next(): V {\n return\n transform(iterator1.next(), iterator2.next())\n }\n override fun hasNext(): Boolean {\n return\n iterator1.hasNext() && iterator2.hasNext()\n }\n }\n }\n\n internal class FlatteningSequence<T, R,\n E>\n constructor(\n private val sequence: Sequence<T>,\n private val transformer: (T) -> R,\n private val\n iterator: (R) -> Iterator<E>) : Sequence<E> {\n override fun iterator(): Iterator<E> = object : Iterator<E> {\n val iterator = sequence.iterator()\n var itemIterator: Iterator<E>? = null\n override fun next(): E {\n if (!ensureItemIterator())\n throw NoSuchElementException()\n return itemIterator!!.next()\n }\n override fun hasNext(): Boolean {\n return ensureItemIterator()\n }\n private fun\n ensureItemIterator(): Boolean {\n if (itemIterator?.hasNext() == false)\n itemIterator = null\n while (itemIterator == null) {\n if (!iterator.hasNext())\n return false\n else {\n val element = iterator.next()\n val nextItemIterator = iterator(transformer(element))\n if (nextItemIterator.hasNext()) {\n itemIterator = nextItemIterator\n return true\n }\n }\n }\n }\n }\n }\n\n internal fun <T, C, R> flatMapIndexed(source:\n Sequence<T>, transform: (Int, T) -> C, iterator: (C) -> Iterator<R>): Sequence<R> =\n sequence {\n var\n index = 0\n for (element in source) {\n val result = transform(checkIndexOverflow(index++), element)\n yieldAll(iterator(result))\n }\n }\n\n /**\n * A sequence that supports drop(n) and take(n) operations\n */\n internal interface DropTakeSequence<T> : Sequence<T> {\n fun drop(n: Int): Sequence<T>\n fun take(n:\n Int): Sequence<T>\n }\n\n /**\n * A sequence that skips [startIndex] values from the underlying [sequence] and\n * stops returning values right before [endIndex], i.e. stops at `endIndex - 1`\n */\n internal class SubSequence<T>(\n private val sequence: Sequence<T>,\n private val startIndex: Int,\n private val endIndex: Int) : Sequence<T>,\n DropTakeSequence<T> {\n init {\n require(startIndex >= 0) { \"startIndex should be non-negative, but is\n $startIndex\" }\n require(endIndex >= 0) { \"endIndex should be non-negative, but is $endIndex\" }\n require(endIndex >= startIndex) { \"endIndex should be not less than startIndex, but was $endIndex < $startIndex\" }\n }\n private val count: Int get() = endIndex - startIndex\n override fun drop(n: Int): Sequence<T> = if (n\n >= count) emptySequence() else SubSequence(sequence, startIndex + n, endIndex)\n override fun take(n: Int):\n Sequence<T> = if (n >= count) this else SubSequence(sequence, startIndex, startIndex + n)\n override fun\n iterator() = object : Iterator<T> {\n val iterator = sequence.iterator()\n var position = 0\n //

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Shouldn't be called from constructor to avoid premature iteration\n private fun drop() {\n while (position
< startIndex && iterator.hasNext()) {\n iterator.next()\n position++\n }\n }\n\n override fun hasNext(): Boolean {\n drop()\n return (position < endIndex) && iterator.hasNext()\n }\n\n override fun next(): T {\n drop()\n if (position >= endIndex)\n throw
NoSuchElementException()\n position++\n return iterator.next()\n }\n }\n}\n\n**\n * A
sequence that returns at most [count] values from the underlying [sequence], and stops returning values\n * as soon
as that count is reached.\n *\n\ninternal class TakeSequence<T>(\n private val sequence: Sequence<T>,\n private
val count: Int\n) : Sequence<T>, DropTakeSequence<T> {\n\n init {\n require(count >= 0) { \"count must be
non-negative, but was $count.\" }\n }\n\n override fun drop(n: Int): Sequence<T> = if (n >= count)
emptySequence() else SubSequence(sequence, n, count)\n\n override fun take(n: Int): Sequence<T> = if (n >=
count) this else TakeSequence(sequence, n)\n\n override fun iterator(): Iterator<T> = object : Iterator<T> {\n
var left = count\n val iterator = sequence.iterator()\n\n override fun next(): T {\n if (left == 0)\n throw NoSuchElementException()\n left--\n return iterator.next()\n }\n\n override fun
hasNext(): Boolean {\n return left > 0 && iterator.hasNext()\n }\n }\n }\n}\n\n**\n * A sequence that
returns values from the underlying [sequence] while the [predicate] function returns\n * `true`, and stops returning
values once the function returns `false` for the next element.\n *\n\ninternal class
TakeWhileSequence<T>\nconstructor(\n private val sequence: Sequence<T>,\n private val predicate: (T) ->
Boolean\n) : Sequence<T> {\n override fun iterator(): Iterator<T> = object : Iterator<T> {\n val iterator =
sequence.iterator()\n var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n var nextItem: T?
= null\n\n private fun calcNext() {\n if (iterator.hasNext()) {\n val item = iterator.next()\n
 if (predicate(item)) {\n nextState = 1\n nextItem = item\n return\n }\n nextState = 0\n }\n\n override fun next(): T {\n if (nextState == -1)\n calcNext() // will change nextState\n if (nextState == 0)\n throw NoSuchElementException()\n @Suppress(\"UNCHECKED_CAST\")\n val result = nextItem as T\n // Clean next to avoid keeping
reference on yielded instance\n nextItem = null\n nextState = -1\n return result\n }\n\n override fun hasNext(): Boolean {\n if (nextState == -1)\n calcNext() // will change nextState\n return nextState == 1\n }\n }\n }\n }\n}\n\n**\n * A sequence that skips the specified number of values from the
underlying [sequence] and returns\n * all values after that.\n *\n\ninternal class DropSequence<T>(\n private val
sequence: Sequence<T>,\n private val count: Int\n) : Sequence<T>, DropTakeSequence<T> {\n init {\n require(count >= 0) { \"count must be non-negative, but was $count.\" }\n }\n\n override fun drop(n: Int):
Sequence<T> = (count + n).let { n1 -> if (n1 < 0) DropSequence(this, n) else DropSequence(sequence, n1) }\n\n override fun take(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) TakeSequence(this, n) else
SubSequence(sequence, count, n1) }\n\n override fun iterator(): Iterator<T> = object : Iterator<T> {\n val
iterator = sequence.iterator()\n var left = count\n\n // Shouldn't be called from constructor to avoid
premature iteration\n private fun drop() {\n while (left > 0 && iterator.hasNext()) {\n
 iterator.next()\n left--\n }\n }\n\n override fun next(): T {\n drop()\n return
iterator.next()\n }\n\n override fun hasNext(): Boolean {\n drop()\n return iterator.hasNext()\n }\n }\n}\n\n**\n * A sequence that skips the values from the underlying [sequence] while the given
[predicate] returns `true` and returns\n * all values after that.\n *\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\n dropState = 0\n }\n\n override fun next(): T {\n if
(dropState == -1)\n drop()\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

```







equal to itself and `-0.0` is not equal to `0.0`.

```
*\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual infix fun <T>
Array<out T>.contentDeepEquals(other: Array<out T>): Boolean {\n return
this.contentDeepEquals(other)\n}\n\n/**\n * Returns `true` if the two specified arrays are *deeply* equal to one
another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The specified arrays are
also considered deeply equal if both are `null`.\n * \n * If two corresponding elements are nested arrays, they are
also compared deeply.\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n * \n * The
elements of other types are compared for equality with the [equals][Any.equals] function.\n * For floating point
numbers it means that `NaN` is equal to itself and -0.0 is not equal to 0.0.
```

```
*\n@SinceKotlin("1.4")\n@library("arrayDeepEquals")\npublic actual infix fun <T> Array<out
T>?.contentDeepEquals(other: Array<out T>?): Boolean {\n definedExternally\n}\n\n/**\n * Returns a hash code
based on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays
contains itself on any nesting level the behavior is undefined.
```

```
*\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual fun <T> Array<out
T>.contentDeepHashCode(): Int {\n return this.contentDeepHashCode()\n}\n\n/**\n * Returns a hash code based
on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays
contains itself on any nesting level the behavior is undefined.
```

```
*\n@SinceKotlin("1.4")\n@library("arrayDeepHashCode")\npublic actual fun <T> Array<out
T>?.contentDeepHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a string representation of the
contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains
itself on any nesting level that reference\n * is rendered as `"[...]"` to prevent recursion.\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentDeepToString
```

```
*\n@SinceKotlin("1.1")\n@kotlin.internal.LowPriorityInOverloadResolution\npublic actual fun <T> Array<out
T>.contentDeepToString(): String {\n return this.contentDeepToString()\n}\n\n/**\n * Returns a string
representation of the contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any
of arrays contains itself on any nesting level that reference\n * is rendered as `"[...]"` to prevent recursion.\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentDeepToString
```

```
*\n@SinceKotlin("1.4")\n@library("arrayDeepToString")\npublic actual fun <T> Array<out
T>?.contentDeepToString(): String {\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 * @Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")
\n * @SinceKotlin("1.1")\n * @DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic
actual infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean {\n return
this.contentEquals(other)\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@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
ByteArray.contentEquals(other: ByteArray): Boolean {\n return this.contentEquals(other)\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@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
ShortArray.contentEquals(other: ShortArray): Boolean {\n return this.contentEquals(other)\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@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
IntArray.contentEquals(other: IntArray): Boolean {\n return this.contentEquals(other)\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@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
LongArray.contentEquals(other: LongArray): Boolean {\n return this.contentEquals(other)\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@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
FloatArray.contentEquals(other: FloatArray): Boolean {\n return this.contentEquals(other)\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@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
DoubleArray.contentEquals(other: DoubleArray): Boolean {\n return this.contentEquals(other)\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@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
BooleanArray.contentEquals(other: BooleanArray): Boolean {\n return this.contentEquals(other)\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@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic actual infix fun
CharArray.contentEquals(other: CharArray): Boolean {\n return this.contentEquals(other)\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("1.4")\n@library("arrayEquals")\npublic actual infix fun <T> Array<out
T>?.contentEquals(other: Array<out T>?): 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("1.4")\n@library("arrayEquals")\npublic actual infix fun ByteArray?.contentEquals(other:
ByteArray?): 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("1.4")\n@library("arrayEquals")\npublic actual infix fun ShortArray?.contentEquals(other:

```

ShortArray?): Boolean {  
 definedExternally  
 }  
 Returns true if the two specified arrays are  
 \*structurally\* equal to one another, i.e. contain the same number of the same elements in the same order.  
 The elements are compared for equality with the [equals][Any.equals] function. For floating point numbers it means that NaN is equal to itself and -0.0 is not equal to 0.0.

```

@SinceKotlin("1.4")
@library("arrayEquals")
public actual infix fun IntArray?.contentEquals(other:
IntArray?): Boolean {
 definedExternally
}
Returns true if the two specified arrays are
structurally equal to one another, i.e. contain the same number of the same elements in the same order.
The elements are compared for equality with the [equals][Any.equals] function. For floating point numbers it
means that NaN is equal to itself and -0.0 is not equal to 0.0.
@SinceKotlin("1.4")
@library("arrayEquals")
public actual infix fun LongArray?.contentEquals(other:
LongArray?): Boolean {
 definedExternally
}
Returns true if the two specified arrays are
structurally equal to one another, i.e. contain the same number of the same elements in the same order.
The elements are compared for equality with the [equals][Any.equals] function. For floating point numbers it
means that NaN is equal to itself and -0.0 is not equal to 0.0.
@SinceKotlin("1.4")
@library("arrayEquals")
public actual infix fun FloatArray?.contentEquals(other:
FloatArray?): Boolean {
 definedExternally
}
Returns true if the two specified arrays are
structurally equal to one another, i.e. contain the same number of the same elements in the same order.
The elements are compared for equality with the [equals][Any.equals] function. For floating point numbers it
means that NaN is equal to itself and -0.0 is not equal to 0.0.
@SinceKotlin("1.4")
@library("arrayEquals")
public actual infix fun DoubleArray?.contentEquals(other:
DoubleArray?): Boolean {
 definedExternally
}
Returns true if the two specified arrays are
structurally equal to one another, i.e. contain the same number of the same elements in the same order.
The elements are compared for equality with the [equals][Any.equals] function. For floating point numbers it
means that NaN is equal to itself and -0.0 is not equal to 0.0.
@SinceKotlin("1.4")
@library("arrayEquals")
public actual infix fun BooleanArray?.contentEquals(other:
BooleanArray?): Boolean {
 definedExternally
}
Returns true if the two specified arrays are
structurally equal to one another, i.e. contain the same number of the same elements in the same order.
The elements are compared for equality with the [equals][Any.equals] function. For floating point numbers it
means that NaN is equal to itself and -0.0 is not equal to 0.0.
@SinceKotlin("1.4")
@library("arrayEquals")
public actual infix fun CharArray?.contentEquals(other:
CharArray?): Boolean {
 definedExternally
}
Returns a hash code based on the contents of this array
as if it is [List].
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun <T>
Array<out T>.contentHashCode(): Int {
 return this.contentHashCode()
}
Returns a hash code based
on the contents of this array as if it is [List].
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun
ByteArray.contentHashCode(): Int {
 return this.contentHashCode()
}
Returns a hash code based on
the contents of this array as if it is [List].
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun
ShortArray.contentHashCode(): Int {
 return this.contentHashCode()
}
Returns a hash code based on
the contents of this array as if it is [List].
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun
IntArray.contentHashCode(): Int {
 return this.contentHashCode()
}
Returns a hash code based on
the contents of this array as if it is [List].
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun
LongArray.contentHashCode(): Int {
 return this.contentHashCode()
}
Returns a hash code based on
the contents of this array as if it is [List].
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")
@SinceKotlin("1.1")
@DeprecatedSinceKotlin(hiddenSince = "1.4")
public actual fun

```

FloatArray.contentHashCode(): Int {  
return this.contentHashCode()  
} // Returns a hash code based on the contents of this array as if it is [List].  
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")  
@SinceKotlin("1.1")  
@DeprecatedSinceKotlin(hiddenSince = "1.4")  
public actual fun DoubleArray.contentHashCode(): Int {  
return this.contentHashCode()  
} // Returns a hash code based on the contents of this array as if it is [List].  
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")  
@SinceKotlin("1.1")  
@DeprecatedSinceKotlin(hiddenSince = "1.4")  
public actual fun BooleanArray.contentHashCode(): Int {  
return this.contentHashCode()  
} // Returns a hash code based on the contents of this array as if it is [List].  
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")  
@SinceKotlin("1.1")  
@DeprecatedSinceKotlin(hiddenSince = "1.4")  
public actual fun CharArray.contentHashCode(): Int {  
return this.contentHashCode()  
} // Returns a hash code based on the contents of this array as if it is [List].  
@SinceKotlin("1.4")  
@library("arrayHashCode")  
public actual fun <T> Array<out T>?.contentHashCode(): Int {  
definedExternally  
} // Returns a hash code based on the contents of this array as if it is [List].  
@SinceKotlin("1.4")  
@library("arrayHashCode")  
public actual fun ByteArray?.contentHashCode(): Int {  
definedExternally  
} // Returns a hash code based on the contents of this array as if it is [List].  
@SinceKotlin("1.4")  
@library("arrayHashCode")  
public actual fun ShortArray?.contentHashCode(): Int {  
definedExternally  
} // Returns a hash code based on the contents of this array as if it is [List].  
@SinceKotlin("1.4")  
@library("arrayHashCode")  
public actual fun IntArray?.contentHashCode(): Int {  
definedExternally  
} // Returns a hash code based on the contents of this array as if it is [List].  
@SinceKotlin("1.4")  
@library("arrayHashCode")  
public actual fun LongArray?.contentHashCode(): Int {  
definedExternally  
} // Returns a hash code based on the contents of this array as if it is [List].  
@SinceKotlin("1.4")  
@library("arrayHashCode")  
public actual fun FloatArray?.contentHashCode(): Int {  
definedExternally  
} // Returns a hash code based on the contents of this array as if it is [List].  
@SinceKotlin("1.4")  
@library("arrayHashCode")  
public actual fun DoubleArray?.contentHashCode(): Int {  
definedExternally  
} // Returns a hash code based on the contents of this array as if it is [List].  
@SinceKotlin("1.4")  
@library("arrayHashCode")  
public actual fun BooleanArray?.contentHashCode(): Int {  
definedExternally  
} // Returns a hash code based on the contents of this array as if it is [List].  
@SinceKotlin("1.4")  
@library("arrayHashCode")  
public actual fun CharArray?.contentHashCode(): Int {  
definedExternally  
} // Returns a string representation of the contents of the specified array as if it is [List].  
} // @sample  
samples.collections.Arrays.ContentOperations.contentToString  
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")  
@SinceKotlin("1.1")  
@DeprecatedSinceKotlin(hiddenSince = "1.4")  
public actual fun <T> Array<out T>.contentToString(): String {  
return this.contentToString()  
} // Returns a string representation of the contents of the specified array as if it is [List].  
} // @sample  
samples.collections.Arrays.ContentOperations.contentToString  
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")  
@SinceKotlin("1.1")  
@DeprecatedSinceKotlin(hiddenSince = "1.4")  
public actual fun ByteArray.contentToString(): String {  
return this.contentToString()  
} // Returns a string representation of the contents of the specified array as if it is [List].  
} // @sample  
samples.collections.Arrays.ContentOperations.contentToString  
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")  
@SinceKotlin("1.1")  
@DeprecatedSinceKotlin(hiddenSince = "1.4")  
public actual fun ShortArray.contentToString(): String {  
return this.contentToString()  
} // Returns a string representation of the contents of the specified array as if it is [List].  
} // @sample  
samples.collections.Arrays.ContentOperations.contentToString  
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")  
@SinceKotlin("1.1")  
@DeprecatedSinceKotlin(hiddenSince = "1.4")  
public actual fun IntArray.contentToString(): String {  
return this.contentToString()  
} // Returns a string representation of the contents of the specified array as if it is [List].  
} // @sample  
samples.collections.Arrays.ContentOperations.contentToString  
@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation warning.")  
@SinceKotlin("1.1")  
@DeprecatedSinceKotlin(hiddenSince = "1.4")  
public actual fun LongArray.contentToString(): String {  
return this.contentToString()  
} // 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@Deprecated("Use Kotlin compiler 1.4 to  
avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic  
actual fun FloatArray.contentToString(): String {\n return this.contentToString()\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@Deprecated("Use Kotlin compiler 1.4 to  
avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic  
actual fun DoubleArray.contentToString(): String {\n return this.contentToString()\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@Deprecated("Use Kotlin compiler 1.4 to  
avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic  
actual fun BooleanArray.contentToString(): String {\n return this.contentToString()\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@Deprecated("Use Kotlin compiler 1.4 to  
avoid deprecation warning.\")\n@SinceKotlin("1.1")\n@DeprecatedSinceKotlin(hiddenSince = "1.4")\npublic  
actual fun CharArray.contentToString(): String {\n return this.contentToString()\n}\n\n/\*\*\n \* Returns a string  
representation of the contents of the specified array as if it is [List].\n \* \n \* @sample  
samples.collections.Arrays.ContentOperations.contentToString\n \*^n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun <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("1.4")\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  
[List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*^n@SinceKotlin("1.4")\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("1.4")\n@library("arrayToString")\npublic actual fun IntArray?.contentToString(): String {\n  
definedExternally\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is  
[List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*^n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun LongArray?.contentToString(): String  
{\n definedExternally\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is  
[List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*^n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun FloatArray?.contentToString(): String  
{\n definedExternally\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is  
[List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*^n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun DoubleArray?.contentToString(): String  
{\n definedExternally\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as if it is  
[List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*^n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun BooleanArray?.contentToString():  
String {\n definedExternally\n}\n\n/\*\*\n \* Returns a string representation of the contents of the specified array as  
if it is [List].\n \* \n \* @sample samples.collections.Arrays.ContentOperations.contentToString\n \*^n@SinceKotlin("1.4")\n@library("arrayToString")\npublic actual fun CharArray?.contentToString(): String  
{\n definedExternally\n}\n\n/\*\*\n \* Copies this array or its subrange into the [destination] array and returns that  
array.\n \* \n \* 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.  
@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.

```
*\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 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * @return the [destination] array.
```

```
*\n@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 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * @return the [destination] array.
```

```
*\n@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 * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * @return the [destination] array.
```

```
*\n@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.
```

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.

```
*\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/**
```

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.

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray {\n arrayCopy(this.unsafeCast<Array<Float>>(), destination.unsafeCast<Array<Float>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**
```

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.

```
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray {\n arrayCopy(this.unsafeCast<Array<Double>>(), destination.unsafeCast<Array<Double>>(), destinationOffset, startIndex, endIndex)\n return
```

```
destination\n}\n\n/**
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.
```

```

*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("\nACTUAL_FUNCTION_WITH_DEFAULT\n_ARGUMENTS")\npublic actual inline fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray {\n
arrayCopy(this.unsafeCast<Array<Boolean>>(), destination.unsafeCast<Array<Boolean>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
*\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\n@Suppress("\nACTUAL_FUNCTION_WITH_DEFAULT\n_ARGUMENTS")\npublic actual inline fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray {\n arrayCopy(this.unsafeCast<Array<Char>>(), destination.unsafeCast<Array<Char>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n *\n@Suppress("\nACTUAL_WITHOUT_EXPECT", "\nNOTHING_TO_INLINE")\npublic actual inline fun <T> Array<out T>.copyOf(): Array<T> {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n *\n@Suppress("\nNOTHING_TO_INLINE")\npublic actual inline fun ByteArray.copyOf(): ByteArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n *\n@Suppress("\nNOTHING_TO_INLINE")\npublic actual inline fun ShortArray.copyOf(): ShortArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n *\n@Suppress("\nNOTHING_TO_INLINE")\npublic actual inline fun IntArray.copyOf(): IntArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n *\npublic actual fun LongArray.copyOf(): LongArray {\n return withType("\nLongArray", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n *\n@Suppress("\nNOTHING_TO_INLINE")\npublic actual inline fun FloatArray.copyOf(): FloatArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n *\n@Suppress("\nNOTHING_TO_INLINE")\npublic actual inline fun DoubleArray.copyOf(): DoubleArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n *\npublic actual fun BooleanArray.copyOf(): BooleanArray {\n return withType("\nBooleanArray", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n *\npublic actual fun CharArray.copyOf(): CharArray {\n return withType("\nCharArray", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n *\npublic actual fun

```

```

ByteArray.copyOf(newSize: Int): ByteArray {
 require(newSize >= 0) { "Invalid new array size: $newSize." }
 return fillFrom(this, ByteArray(newSize))
}
/**
 * Returns new array which is a copy of the original
 * array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if
 * necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the
 * [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are
 * filled with zero values.
 * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */
public actual fun ShortArray.copyOf(newSize: Int): ShortArray {
 require(newSize >= 0) { "Invalid new
 array size: $newSize." }
 return fillFrom(this, ShortArray(newSize))
}
/**
 * Returns new array which is a
 * copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with
 * zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated
 * to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array
 * are filled with zero values.
 * @sample
 samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */
public actual fun
IntArray.copyOf(newSize: Int): IntArray {
 require(newSize >= 0) { "Invalid new array size: $newSize." }
 return fillFrom(this, IntArray(newSize))
}
/**
 * Returns new array which is a copy of the original array,
 * resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero
 * values.
 * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */
public actual fun
LongArray.copyOf(newSize: Int): LongArray {
 require(newSize >= 0) { "Invalid new array size:
 $newSize." }
 return withType("LongArray", arrayCopyResize(this, newSize, 0L))
}
/**
 * Returns new
 * array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded
 * at the end with zero values if necessary.
 * - If [newSize] is less than the size of the original array, the copy
 * array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements
 * in the copy array are filled with zero values.
 * @sample
 samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */
public actual fun
FloatArray.copyOf(newSize: Int): FloatArray {
 require(newSize >= 0) { "Invalid new array size: $newSize." }
 return fillFrom(this, FloatArray(newSize))
}
/**
 * Returns new array which is a copy of the original
 * array, resized to the given [newSize].
 * The copy is either truncated or padded at the end with zero values if
 * necessary.
 * - If [newSize] is less than the size of the original array, the copy array is truncated to the
 * [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are
 * filled with zero values.
 * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */
public actual fun
DoubleArray.copyOf(newSize: Int): DoubleArray {
 require(newSize >= 0) { "Invalid new
 array size: $newSize." }
 return fillFrom(this, DoubleArray(newSize))
}
/**
 * Returns new array which is
 * a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or padded at the end
 * with `false` values if necessary.
 * - If [newSize] is less than the size of the original array, the copy array is
 * truncated to the [newSize].
 * - If [newSize] is greater than the size of the original array, the extra elements in the
 * copy array are filled with `false` values.
 * @sample
 samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */
public actual fun
BooleanArray.copyOf(newSize: Int): BooleanArray {
 require(newSize >= 0) { "Invalid new array size:
 $newSize." }
 return withType("BooleanArray", arrayCopyResize(this, newSize, false))
}
/**
 * Returns
 * new array which is a copy of the original array, resized to the given [newSize].
 * The copy is either truncated or
 * padded at the end with null char (`\u0000`) values if necessary.
 * - If [newSize] is less than the size of the
 * original array, the copy array is truncated to the [newSize].
 * - If [newSize] is greater than the size of the original
 * array, the extra elements in the copy array are filled with null char (`\u0000`) values.
 * @sample
 samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf
 */
public actual fun
CharArray.copyOf(newSize: Int): CharArray {
 require(newSize >= 0) { "Invalid new array size: $newSize." }
 return withType("CharArray", fillFrom(this, CharArray(newSize)))
}
/**
 * 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) to copy.\n * @param toIndex the end of the range (exclusive)

to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than

the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@Suppress("ACTUAL_WITHOUT_EXPECT")\npublic actual fun <T> Array<out

T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T> {\n AbstractList.checkRangeIndexes(fromIndex,

toIndex, size)\n return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a

copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to

copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException

if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws

IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\npublic actual fun

ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray {\n

AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex,

toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *

 * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to

copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the

size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\npublic

actual fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray {\n

AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex,

toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *

 * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to

copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the

size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\npublic

actual fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray {\n

AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex,

toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *

 * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to

copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the

size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n *\npublic

actual fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray {\n

AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return withType("LongArray",

this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified

range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param

toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is

less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if

[fromIndex] is greater than [toIndex].\n *\npublic actual fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int):

FloatArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return

this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range

of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the

end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero

or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
```

```

than [toIndex].\n * \n public actual fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return this.asDynamic().slice(fromIndex,
toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n *
@param fromIndex the start of the range (inclusive) to copy.\n * @param toIndex the end of the range (exclusive) to
copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the
size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n public
actual fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return withType("BooleanArray",
this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified
range of the original array.\n * \n * @param fromIndex the start of the range (inclusive) to copy.\n * @param
toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is
less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if
[fromIndex] is greater than [toIndex].\n * \n public actual fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int):
CharArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n return withType("CharArray",
this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the specified
[element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param
toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n @SinceKotlin("1.3")\n @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n public
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) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n @SinceKotlin("1.3")\n @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n public
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) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n @SinceKotlin("1.3")\n @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n public
actual fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n @SinceKotlin("1.3")\n @Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n public
actual fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)

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to fill, size of this array by default.\n \* \n \* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n \* @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n

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*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param
fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n 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) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n 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) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive)
to fill, size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.3")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex,
toIndex);\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n
*\n@Suppress("ACTUAL_WITHOUT_EXPECT", "NOTHING_TO_INLINE")\npublic actual inline operator
fun <T> Array<out T>.plus(element: T): Array<T> {\n return
this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original
array and then the given [element].\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator
fun ByteArray.plus(element: Byte): ByteArray {\n return plus(byteArrayOf(element))\n}\n\n/**\n * Returns an
array containing all elements of the original array and then the given [element].\n
*\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ShortArray.plus(element: Short):
ShortArray {\n return plus(shortArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the
original array and then the given [element].\n *\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline

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operator fun IntArray.plus(element: Int): IntArray {\n return plus(intArrayOf(element))\n}\n\n/**\n * Returns an
array containing all elements of the original array and then the given [element].\n
*\n\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun LongArray.plus(element: Long):
LongArray {\n return plus(longArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the
original array and then the given [element].\n
*\n\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline
operator fun FloatArray.plus(element: Float): FloatArray {\n return plus(floatArrayOf(element))\n}\n\n/**\n *
Returns an array containing all elements of the original array and then the given [element].\n
*\n\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun DoubleArray.plus(element:
Double): DoubleArray {\n return plus(doubleArrayOf(element))\n}\n\n/**\n * Returns an array containing all
elements of the original array and then the given [element].\n
*\n\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun BooleanArray.plus(element: Boolean): BooleanArray {\n return
plus(booleanArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then
the given [element].\n
*\n\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun
CharArray.plus(element: Char): CharArray {\n return plus(charArrayOf(element))\n}\n\n/**\n * Returns an array
containing all elements of the original array and then all elements of the given [elements] collection.\n
*\n\n@Suppress("ACTUAL_WITHOUT_EXPECT")\npublic actual operator fun <T> Array<out T>.plus(elements:
Collection<T>): Array<T> {\n return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array
containing all elements of the original array and then all elements of the given [elements] collection.\n
*\n\npublic actual operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray {\n return
fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing
all elements of the original array and then all elements of the given [elements] collection.\n
*\n\npublic actual operator fun ShortArray.plus(elements: Collection<Short>): ShortArray {\n return
fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing
all elements of the original array and then all elements of the given [elements] collection.\n
*\n\npublic actual operator fun IntArray.plus(elements: Collection<Int>): IntArray {\n return fillFromCollection(this.copyOf(size +
elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and
then all elements of the given [elements] collection.\n
*\n\npublic actual operator fun LongArray.plus(elements: Collection<Long>): LongArray {\n return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array
containing all elements of the original array and then all elements of the given [elements] collection.\n
*\n\npublic actual operator fun FloatArray.plus(elements: Collection<Float>): FloatArray {\n return
fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing
all elements of the original array and then all elements of the given [elements] collection.\n
*\n\npublic actual operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray {\n return
fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing
all elements of the original array and then all elements of the given [elements] collection.\n
*\n\npublic actual operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray {\n return
arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and
then all elements of the given [elements] collection.\n
*\n\npublic actual operator fun CharArray.plus(elements: Collection<Char>): CharArray {\n return fillFromCollection(this.copyOf(size + elements.size), this.size,
elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the
given [elements] array.\n
*\n\n@Suppress("ACTUAL_WITHOUT_EXPECT",
"NOTHING_TO_INLINE")\npublic actual inline operator fun <T> Array<out T>.plus(elements: Array<out T>):
Array<T> {\n return this.asDynamic().concat(elements)\n}\n\n/**\n * Returns an array containing all elements of
the original array and then all elements of the given [elements] array.\n
*\n\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ByteArray.plus(elements:
ByteArray): ByteArray {\n return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing
all elements of the original array and then all elements of the given [elements] array.\n
*\n\n@Suppress("NOTHING_TO_INLINE")\npublic actual inline operator fun ShortArray.plus(elements:

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ShortArray): ShortArray { \n return primitiveArrayConcat(this, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n

\*\n@Suppress("NOTHING\_TO\_INLINE")\npublic actual inline operator fun IntArray.plus(elements: IntArray): IntArray { \n return primitiveArrayConcat(this, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n

\*\n@Suppress("NOTHING\_TO\_INLINE")\npublic actual inline operator fun LongArray.plus(elements: LongArray): LongArray { \n return primitiveArrayConcat(this, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n

\*\n@Suppress("NOTHING\_TO\_INLINE")\npublic actual inline operator fun FloatArray.plus(elements: FloatArray): FloatArray { \n return primitiveArrayConcat(this, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n

\*\n@Suppress("NOTHING\_TO\_INLINE")\npublic actual inline operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray { \n return primitiveArrayConcat(this, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n

\*\n@Suppress("NOTHING\_TO\_INLINE")\npublic actual inline operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray { \n return primitiveArrayConcat(this, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n

\*\n@Suppress("NOTHING\_TO\_INLINE")\npublic actual inline operator fun CharArray.plus(elements: CharArray): CharArray { \n return primitiveArrayConcat(this, elements)\n}\n\n/\*\*\n \* Returns an array containing all elements of the original array and then the given [element].\n

\*\n@Suppress("ACTUAL\_WITHOUT\_EXPECT", "NOTHING\_TO\_INLINE")\npublic actual inline fun <T> Array<out T>.plusElement(element: T): Array<T> { \n return this.asDynamic().concat(arrayOf(element))\n}\n\n/\*\*\n \* Sorts the array in-place.\n \* \n \* @sample samples.collections.Arrays.Sorting.sortArray\n \*\n@library("primitiveArraySort")\npublic actual fun IntArray.sort(): Unit { \n definedExternally\n}\n\n/\*\*\n \* Sorts the array in-place.\n \* \n \* @sample samples.collections.Arrays.Sorting.sortArray\n \*\npublic actual fun LongArray.sort(): Unit { \n @Suppress("DEPRECATION")\n if (size > 1) sort { a: Long, b: Long -> a.compareTo(b) }\n}\n\n/\*\*\n \* Sorts the array in-place.\n \* \n \* @sample samples.collections.Arrays.Sorting.sortArray\n

\*\n@library("primitiveArraySort")\npublic actual fun ByteArray.sort(): Unit { \n definedExternally\n}\n\n/\*\*\n \* Sorts the array in-place.\n \* \n \* @sample samples.collections.Arrays.Sorting.sortArray\n

\*\n@library("primitiveArraySort")\npublic actual fun ShortArray.sort(): Unit { \n definedExternally\n}\n\n/\*\*\n \* Sorts the array in-place.\n \* \n \* @sample samples.collections.Arrays.Sorting.sortArray\n

\*\n@library("primitiveArraySort")\npublic actual fun DoubleArray.sort(): Unit { \n definedExternally\n}\n\n/\*\*\n \* Sorts the array in-place.\n \* \n \* @sample samples.collections.Arrays.Sorting.sortArray\n \*\n@library("primitiveArraySort")\npublic actual fun FloatArray.sort(): Unit { \n definedExternally\n}\n\n/\*\*\n \* Sorts the array in-place.\n \* \n \* @sample samples.collections.Arrays.Sorting.sortArray\n \*\n@library("primitiveArraySort")\npublic actual fun CharArray.sort(): Unit { \n definedExternally\n}\n\n/\*\*\n \* Sorts the array in-place according to the natural order of its elements.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \* \n \* @sample samples.collections.Arrays.Sorting.sortArrayOfComparable\n \*\npublic actual fun <T : Comparable<T>> Array<out T>.sort(): Unit { \n if (size > 1) sortArray(this)\n}\n\n/\*\*\n \* Sorts the array in-place according to the order specified by the given [comparison] function.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \* \n@Deprecated("Use sortWith instead", ReplaceWith("this.sortWith(Comparator(comparison))"))\n@DeprecatedSinceKotlin(warningSince = "1.6")\npublic fun <T> Array<out T>.sort(comparison: (a: T, b: T) -> Int): Unit { \n if (size > 1) sortArrayWith(this, comparison)\n}\n\n/\*\*\n \* Sorts a range in the array in-place.\n \* \n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \* \n \* @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n \* @param toIndex the end of the range (exclusive) to sort, size

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of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex]
is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArrayOfComparable\n
\n\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun <T : Comparable<T>> Array<out T>.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArrayWith(this, fromIndex, toIndex,
naturalOrder())\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range
(inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
\n\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ByteArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<ByteArray>()\n subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
\n\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun ShortArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<ShortArray>()\n subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
\n\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun IntArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n val subarray =
this.asDynamic().subarray(fromIndex, toIndex).unsafeCast<IntArray>()\n subarray.sort()\n}\n\n/**\n * Sorts a
range in the array in-place.\n * \n * @param fromIndex the start of the range (inclusive) to sort, 0 by default.\n *
@param toIndex the end of the range (exclusive) to sort, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n * @sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n
\n\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun LongArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n
AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArrayWith(this.unsafeCast<Array<Long>>(),
fromIndex, toIndex, naturalOrder())\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex
the start of the range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort,
size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or
[toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than
[toIndex].\n * \n * @sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
\n\n@SinceKotlin("1.4")\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic
actual fun FloatArray.sort(fromIndex: Int = 0, toIndex: Int = size): Unit {\n

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K>, selector: (T) -> K): Int { \n return comparator.compare(selector(a), selector(b))\n}\n\n//// Not so useful without
type inference for receiver of expression\n//// compareValuesWith(v1, v2, compareBy { it.prop1 }
thenByDescending { it.prop2 })\n//**\n// * Compares two values using the specified [comparator].\n//
*/\n//@Suppress("NOTHING_TO_INLINE")\n//public inline fun <T> compareValuesWith(a: T, b: T, comparator:
Comparator<T>): Int = comparator.compare(a, b)\n/\n\n/**\n * Compares two nullable [Comparable] values. Null
is considered less than any value.\n * \n * @sample samples.comparisons.Comparisons.compareValues\n */\npublic
fun <T : Comparable<*>> compareValues(a: T?, b: T?): Int { \n if (a === b) return 0\n if (a == null) return -1\n
if (b == null) return 1\n @Suppress("UNCHECKED_CAST")\n return (a as
Comparable<Any>).compareTo(b)\n}\n\n/**\n * Creates a comparator using the sequence of functions to calculate a
result of comparison.\n * The functions are called sequentially, receive the given values `a` and `b` and return
[Comparable]\n * objects. As soon as the [Comparable] instances returned by a function for `a` and `b` values do
not\n * compare as equal, the result of that comparison is returned from the [Comparator].\n * \n * @sample
samples.comparisons.Comparisons.compareByWithSelectors\n */\npublic fun <T> compareBy(vararg selectors: (T)
-> Comparable<*>?): Comparator<T> { \n require(selectors.size > 0)\n return Comparator { a, b ->
compareValuesByImpl(a, b, selectors) }\n}\n\n/**\n * Creates a comparator using the function to transform value
to a [Comparable] instance for comparison.\n * \n * @sample
samples.comparisons.Comparisons.compareByWithSingleSelector\n */\n@kotlin.internal.InlineOnly\npublic inline
fun <T> compareBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n Comparator { a, b ->
compareValuesBy(a, b, selector) }\n\n/**\n * Creates a comparator using the [selector] function to transform values
being compared and then applying\n * the specified [comparator] to compare transformed values.\n * \n * @sample
samples.comparisons.Comparisons.compareByWithComparator\n */\n@kotlin.internal.InlineOnly\npublic inline
fun <T, K> compareBy(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n Comparator { a, b -> compareValuesBy(a, b, comparator, selector) }\n\n/**\n * Creates a descending comparator
using the function to transform value to a [Comparable] instance for comparison.\n * \n * @sample
samples.comparisons.Comparisons.compareByDescendingWithSingleSelector\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> compareByDescending(crossinline selector: (T) ->
Comparable<*>?): Comparator<T> =\n Comparator { a, b -> compareValuesBy(b, a, selector) }\n\n/**\n *
Creates a descending comparator using the [selector] function to transform values being compared and then
applying\n * the specified [comparator] to compare transformed values.\n * \n * Note that an order of [comparator] is
reversed by this wrapper.\n * \n * @sample
samples.comparisons.Comparisons.compareByDescendingWithComparator\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareByDescending(comparator: Comparator<in K>,
crossinline selector: (T) -> K): Comparator<T> =\n Comparator { a, b -> compareValuesBy(b, a, comparator,
selector) }\n\n/**\n * Creates a comparator comparing values after the primary comparator defined them equal. It
uses\n * the function to transform value to a [Comparable] instance for comparison.\n * \n * @sample
samples.comparisons.Comparisons.thenBy\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Comparator<T>.thenBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n Comparator { a, b -
->\n val previousCompare = this@thenBy.compare(a, b)\n if (previousCompare != 0) previousCompare else
compareValuesBy(a, b, selector)\n }\n\n/**\n * Creates a comparator comparing values after the primary
comparator defined them equal. It uses\n * the [selector] function to transform values and then compares them with
the given [comparator].\n * \n * @sample samples.comparisons.Comparisons.thenByWithComparator\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> Comparator<T>.thenBy(comparator: Comparator<in K>,
crossinline selector: (T) -> K): Comparator<T> =\n Comparator { a, b ->\n val previousCompare =
this@thenBy.compare(a, b)\n if (previousCompare != 0) previousCompare else compareValuesBy(a, b,
comparator, selector)\n }\n\n/**\n * Creates a descending comparator using the primary comparator and\n * the
function to transform value to a [Comparable] instance for comparison.\n * \n * @sample
samples.comparisons.Comparisons.thenByDescending\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Comparator<T>.thenByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n

```

```

Comparator { a, b -> \n val previousCompare = this@thenByDescending.compare(a, b)\n if
(previousCompare != 0) previousCompare else compareValuesBy(b, a, selector)\n }\n\n/**\n * Creates a
descending comparator comparing values after the primary comparator defined them equal. It uses\n * the [selector]
function to transform values and then compares them with the given [comparator].\n *\n * @sample
samples.comparisons.Comparisons.thenByDescendingWithComparator\n *\n@kotlin.internal.InlineOnly\npublic
inline fun <T, K> Comparator<T>.thenByDescending(comparator: Comparator<in K>, crossinline selector: (T) ->
K): Comparator<T> =\n Comparator { a, b -> \n val previousCompare = this@thenByDescending.compare(a,
b)\n if (previousCompare != 0) previousCompare else compareValuesBy(b, a, comparator, selector)\n }\n\n\n/**\n * Creates a comparator using the primary comparator and function to calculate a result of comparison.\n *\n * @sample
samples.comparisons.Comparisons.thenComparator\n *\n@kotlin.internal.InlineOnly\npublic inline
fun <T> Comparator<T>.thenComparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> =\n
Comparator { a, b -> \n val previousCompare = this@thenComparator.compare(a, b)\n if (previousCompare
!= 0) previousCompare else comparison(a, b)\n }\n\n\n/**\n * Combines this comparator and the given [comparator]
such that the latter is applied only\n * when the former considered values equal.\n *\n * @sample
samples.comparisons.Comparisons.then\n *\n@kotlin.internal.InlineOnly\npublic infix fun <T> Comparator<T>.then(comparator:
Comparator<in T>): Comparator<T> =\n Comparator { a, b -> \n val previousCompare =
this@then.compare(a, b)\n if (previousCompare != 0) previousCompare else comparator.compare(a, b)\n }\n\n\n/**\n * Combines this comparator and the given [comparator] such that the latter is applied only\n * when the
former considered values equal.\n *\n * @sample
samples.comparisons.Comparisons.thenDescending\n *\n@kotlin.internal.InlineOnly\npublic
infix fun <T> Comparator<T>.thenDescending(comparator: Comparator<in T>): Comparator<T> =\n
Comparator<T> { a, b -> \n val previousCompare = this@thenDescending.compare(a, b)\n if
(previousCompare != 0) previousCompare else comparator.compare(b, a)\n }\n\n\n// Not so useful without type
inference for receiver of expression\n\n/**\n * Extends the given [comparator] of non-nullable values to a comparator
of nullable values\n * considering `null` value less than any other value.\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator\n *\n@kotlin.internal.InlineOnly\npublic fun <T : Any>
nullsFirst(comparator: Comparator<in T>): Comparator<T?> =\n Comparator { a, b -> \n when {\n a
=== b -> 0\n a == null -> -1\n b == null -> 1\n else -> comparator.compare(a, b)\n }\n }\n\n\n/**\n * Provides a comparator of nullable [Comparable] values\n * considering `null` value less than any other
value.\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastComparator\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T : Comparable<T>> nullsFirst(): Comparator<T?> =
nullsFirst(naturalOrder())\n\n\n/**\n * Extends the given [comparator] of non-nullable values to a comparator of
nullable values\n * considering `null` value greater than any other value.\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator\n *\n@kotlin.internal.InlineOnly\npublic fun <T : Any>
nullsLast(comparator: Comparator<in T>): Comparator<T?> =\n Comparator { a, b -> \n when {\n a
=== b -> 0\n a == null -> 1\n b == null -> -1\n else -> comparator.compare(a, b)\n }\n }\n\n\n/**\n * Provides a comparator of nullable [Comparable] values\n * considering `null` value greater than any
other value.\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastComparator\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <T : Comparable<T>> nullsLast(): Comparator<T?> =
nullsLast(naturalOrder())\n\n\n/**\n * Returns a comparator that compares [Comparable] objects in natural order.\n *\n * @sample
samples.comparisons.Comparisons.naturalOrderComparator\n *\n@kotlin.internal.InlineOnly\npublic fun <T : Comparable<T>>
naturalOrder(): Comparator<T> = @Suppress("UNCHECKED_CAST") (NaturalOrderComparator as
Comparator<T>)\n\n\n/**\n * Returns a comparator that compares [Comparable] objects in reversed natural order.\n *\n * @sample
samples.comparisons.Comparisons.nullsFirstLastWithComparator\n *\n@kotlin.internal.InlineOnly\npublic fun <T :
Comparable<T>> reverseOrder(): Comparator<T> = @Suppress("UNCHECKED_CAST")
(ReverseOrderComparator as Comparator<T>)\n\n\n/**\n * Returns a comparator that imposes the reverse ordering
of this comparator.\n *\n * @sample
samples.comparisons.Comparisons.reversed\n
*\n@kotlin.internal.InlineOnly\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\nprivate class ReversedComparator<T>(public val
comparator: Comparator<T>) : Comparator<T> {\n override fun compare(a: T, b: T): Int = comparator.compare(b,
a)\n @Suppress("VIRTUAL_MEMBER_HIDDEN")\n fun reversed(): Comparator<T> =
comparator\n}\n\nprivate object NaturalOrderComparator : Comparator<Comparable<Any>> {\n override fun
compare(a: Comparable<Any>, b: Comparable<Any>): Int = a.compareTo(b)\n
@Suppress("VIRTUAL_MEMBER_HIDDEN")\n fun reversed(): Comparator<Comparable<Any>> =
ReverseOrderComparator\n}\n\nprivate object ReverseOrderComparator : Comparator<Comparable<Any>> {\n
override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = b.compareTo(a)\n
@Suppress("VIRTUAL_MEMBER_HIDDEN")\n fun reversed(): Comparator<Comparable<Any>> =
NaturalOrderComparator\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StandardKt")\npackage kotlin\n\nimport
kotlin.contracts.*\n\n/**\n * An exception is thrown to indicate that a method body remains to be implemented.\n
*/\n\npublic class NotImplementedError(message: String = "An operation is not implemented.") :
Error(message)\n\n/**\n * Always throws [NotImplementedError] stating that operation is not implemented.\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun TODO(): Nothing = throw NotImplementedError()\n\n/**\n *
Always throws [NotImplementedError] stating that operation is not implemented.\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 * Calls
the specified function [block] and returns its result.\n * For detailed usage information see the documentation for
[scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n
*/\n\n@kotlin.internal.InlineOnly\npublic inline fun <R> run(block: () -> R): R {\n contract {\n
callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n return block()\n}\n\n/**\n * Calls the specified
function [block] with `this` value as its receiver and returns its result.\n * For detailed usage information see the
documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n
*/\n\n@kotlin.internal.InlineOnly\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@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@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
*/\n * For detailed usage information see the documentation for [scope
functions](https://kotlinlang.org/docs/reference/scope-functions.html#also).\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
*/\n * For detailed usage information see the documentation for [scope
functions](https://kotlinlang.org/docs/reference/scope-functions.html#let).\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.  
 \* For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-takeunless).

```

* Kotlin internal: inline fun <T> T.takeIf(predicate: (T) -> Boolean): T? {
 contract { callsInPlace(predicate, InvocationKind.EXACTLY_ONCE) }
 return if (predicate(this)) this else null
}

```

\* Returns `this` value if it \_does not\_ satisfy the given [predicate] or `null`, if it does.  
 \* For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#takeif-and-takeunless).

```

* Kotlin internal: inline fun <T> T.takeUnless(predicate: (T) -> Boolean): T? {
 contract { callsInPlace(predicate, InvocationKind.EXACTLY_ONCE) }
 return if (!predicate(this)) this else null
}

```

\* Executes the given function [action] specified number of [times].  
 \* A zero-based index of current iteration is passed as a parameter to [action].  
 \* @sample samples.misc.ControlFlow.repeat

```

* Kotlin internal: inline fun repeat(times: Int, action: (Int) -> Unit) {
 contract { callsInPlace(action) }
 for (index in 0 until times) {
 action(index)
 }
}

```

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\* NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt  
 \* See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib  
 \* kotlin.js

```

* Returns the greater of two values.
* If values are equal, returns the first one.
* Kotlin internal: actual fun <T : Comparable<T>> maxOf(a: T, b: T): T {
 return if (a >= b) a else b
}

```

\* Returns the greater of two values.

```

* Kotlin internal: inline fun maxOf(a: Byte, b: Byte): Byte {
 return maxOf(a.toInt(), b.toInt()).unsafeCast<Byte>()
}

```

\* Returns the greater of two values.

```

* Kotlin internal: inline fun maxOf(a: Short, b: Short): Short {
 return maxOf(a.toInt(), b.toInt()).unsafeCast<Short>()
}

```

\* Returns the greater of two values.

```

* Kotlin internal: inline fun maxOf(a: Int, b: Int): Int {
 return JsMath.max(a, b)
}

```

\* Returns the greater of two values.

```

* Kotlin internal: inline fun maxOf(a: Long, b: Long): Long {
 return if (a >= b) a else b
}

```

\* Returns the greater of two values.  
 \* If either value is `NaN`, returns `NaN`.

```

* Kotlin internal: inline fun maxOf(a: Float, b: Float): Float {
 return JsMath.max(a, b)
}

```

\* Returns the greater of two values.  
 \* If either value is `NaN`, returns `NaN`.

```

* Kotlin internal: inline fun maxOf(a: Double, b: Double): Double {
 return JsMath.max(a, b)
}

```

\* Returns the greater of three values.  
 \* If there are multiple equal maximal values, returns the first of them.

```

* Kotlin internal: actual fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T {
 return maxOf(a, maxOf(b, c))
}

```

\* Returns the greater of three values.

```

* Kotlin internal: inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte {
 return JsMath.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()
}

```

\* Returns the greater of three values.

```

* Kotlin internal: inline fun maxOf(a: Short, b: Short, c: Short): Short {
 return JsMath.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()
}

```

\* Returns the greater of three values.

```

* Kotlin internal: inline fun maxOf(a: Int, b: Int, c: Int): Int {
 return JsMath.max(a, b, c)
}

```

\* Returns the greater of three values.

```

* Kotlin internal: inline fun maxOf(a: Long, b: Long, c: Long): Long {
 return maxOf(a, maxOf(b, c))
}

```

\* Returns the greater of three values.  
 \* If any value is `NaN`, returns `NaN`.

```

* Kotlin internal: inline fun maxOf(a: Float, b: Float, c: Float): Float {
 return JsMath.max(a, b, c)
}

```

\* Returns the greater of three values.  
 \* If any value is `NaN`, returns `NaN`.

```

* Kotlin internal: inline fun maxOf(a: Double, b: Double, c: Double): Double {
 return JsMath.max(a, b, c)
}

```

\* Returns the greater of the given values.  
 \* If

there are multiple equal maximal values, returns the first of them.

```

@SinceKotlin("1.4")
public actual fun <T : Comparable<T>> maxOf(a: T, vararg other: T): T {
 var max = a
 for (e in other) max = maxOf(max, e)
 return max
}

```

\* Returns the greater of the given values.

```

@SinceKotlin("1.4")
public actual fun maxOf(a: Byte, vararg other: Byte): Byte {
 var max = a
 for (e in other) max = maxOf(max, e)
 return max
}

```

\* Returns the greater of the given values.

```

@SinceKotlin("1.4")
public actual fun maxOf(a: Short, vararg other: Short): Short {
 var max = a
 for (e in other) max = maxOf(max, e)
 return max
}

```

\* Returns the greater of the given values.

```

@SinceKotlin("1.4")
public actual fun maxOf(a: Int, vararg other: Int): Int {
 var max = a
 for (e in other) max = maxOf(max, e)
 return max
}

```

\* Returns the greater of the given values.

```

@SinceKotlin("1.4")
public actual fun maxOf(a: Long, vararg other: Long): Long {
 var max = a
 for (e in other) max = maxOf(max, e)
 return max
}

```

\* Returns the greater of the given values.

```

@SinceKotlin("1.4")
public actual fun maxOf(a: Float, vararg other: Float): Float {
 var max = a
 for (e in other) max = maxOf(max, e)
 return max
}

```

\* Returns the greater of the given values.

```

@SinceKotlin("1.4")
public actual fun maxOf(a: Double, vararg other: Double): Double {
 var max = a
 for (e in other) max = maxOf(max, e)
 return max
}

```

\* Returns the smaller of two values.

```

@SinceKotlin("1.1")
public actual fun <T : Comparable<T>> minOf(a: T, b: T): T {
 return if (a <= b) a else b
}

```

\* Returns the smaller of two values.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Byte, b: Byte): Byte {
 return minOf(a.toInt(), b.toInt()).unsafeCast<Byte>()
}

```

\* Returns the smaller of two values.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Short, b: Short): Short {
 return minOf(a.toInt(), b.toInt()).unsafeCast<Short>()
}

```

\* Returns the smaller of two values.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Int, b: Int): Int {
 return JsMath.min(a, b)
}

```

\* Returns the smaller of two values.

```

@SinceKotlin("1.1")
@Suppress("NOTHING_TO_INLINE")
public actual inline fun minOf(a: Long, b: Long): Long {
 return if (a <= b) a else b
}

```

\* Returns the smaller of two values.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Float, b: Float): Float {
 return JsMath.min(a, b)
}

```

\* Returns the smaller of two values.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Double, b: Double): Double {
 return JsMath.min(a, b)
}

```

\* Returns the smaller of three values.

```

@SinceKotlin("1.1")
public actual fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T {
 return minOf(a, minOf(b, c))
}

```

\* Returns the smaller of three values.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Byte, b: Byte, c: Byte): Byte {
 return JsMath.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()
}

```

\* Returns the smaller of three values.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Short, b: Short, c: Short): Short {
 return JsMath.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()
}

```

\* Returns the smaller of three values.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Int, b: Int, c: Int): Int {
 return JsMath.min(a, b, c)
}

```

\* Returns the smaller of three values.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Long, b: Long, c: Long): Long {
 return minOf(a, minOf(b, c))
}

```

\* Returns the smaller of three values.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Float, b: Float, c: Float): Float {
 return JsMath.min(a, b, c)
}

```

\* Returns the smaller of three values.

```

@SinceKotlin("1.1")
@kotlin.internal.InlineOnly
public actual inline fun minOf(a: Double, b: Double, c: Double): Double {
 return JsMath.min(a, b, c)
}

```

\* Returns the smaller of the given values.

```

@SinceKotlin("1.4")
public actual fun <T : Comparable<T>> minOf(a: T, vararg other: T): T {
 var min = a
 for (e in other) min = minOf(min, e)
 return min
}

```

\* Returns the smaller of the given values.

```

minOf(a: Byte, vararg other: Byte): Byte {\n var min = a\n for (e in other) min = minOf(min, e)\n return
min\n}\n\n/**\n * Returns the smaller of the given values.\n */\n@SinceKotlin("1.4")\npublic actual fun minOf(a:
Short, vararg other: Short): Short {\n var min = a\n for (e in other) min = minOf(min, e)\n return
min\n}\n\n/**\n * Returns the smaller of the given values.\n */\n@SinceKotlin("1.4")\npublic actual fun minOf(a:
Int, vararg other: Int): Int {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n *
Returns the smaller of the given values.\n */\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Long, vararg
other: Long): Long {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns
the smaller of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n */\n@SinceKotlin("1.4")\npublic
actual fun minOf(a: Float, vararg other: Float): Float {\n var min = a\n for (e in other) min = minOf(min, e)\n
return min\n}\n\n/**\n * Returns the smaller of the given values.\n * \n * If any value is `NaN`, returns `NaN`.\n
*/\n@SinceKotlin("1.4")\npublic actual fun minOf(a: Double, vararg other: Double): Double {\n var min = a\n
for (e in other) min = minOf(min, e)\n return min\n}\n\n", "/*\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport
kotlin.experimental.*\n\nimport
kotlin.jvm.*\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@JvmInline\npub
lic value class ULong @PublishedApi internal constructor(@PublishedApi internal val data: Long) :
Comparable<ULong> {\n\n companion object {\n\n /**\n * A constant holding the minimum value an
instance of ULong can have.\n */\n public const val MIN_VALUE: ULong = ULong(0)\n\n /**\n * A
constant holding the maximum value an instance of ULong can have.\n */\n public const val
MAX_VALUE: ULong = ULong(-1)\n\n /**\n * The number of bytes used to represent an instance of
ULong in a binary form.\n */\n public const val SIZE_BYTES: Int = 8\n\n /**\n * The number of
bits used to represent an instance of ULong in a binary form.\n */\n public const val SIZE_BITS: Int = 64\n
}\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to
the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than
other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UByte): Int =
this.compareTo(other.toULong())\n\n /**\n * Compares this value with the specified value for order.\n *
Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a
positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun
compareTo(other: UShort): Int = this.compareTo(other.toULong())\n\n /**\n * Compares this value with the
specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if
it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n
public inline operator fun compareTo(other: UInt): Int = this.compareTo(other.toULong())\n\n /**\n *
Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other
value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n
 @kotlin.internal.InlineOnly\n @Suppress("OVERRIDE_BY_INLINE")\n public override inline operator fun
compareTo(other: ULong): Int = ulongCompare(this.data, other.data)\n\n /** Adds the other value to this value.\n
*/\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UByte): ULong =
this.plus(other.toULong())\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 /** 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 /** 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 /** 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 /** 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 /** 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 /** Subtracts the other value from this value.\n */\n @kotlin.internal.InlineOnly\n

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public inline operator fun minus(other: ULong): ULong = ULong(this.data.minus(other.data))\n\n /** Multiplies
this value by the other value. *\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UByte):
ULong = this.times(other.toULong())\n /** Multiplies this value by the other value. *\n
@\kotlin.internal.InlineOnly\n public inline operator fun times(other: UShort): ULong =
this.times(other.toULong())\n /** Multiplies this value by the other value. *\n @kotlin.internal.InlineOnly\n
public inline operator fun times(other: UInt): ULong = this.times(other.toULong())\n /** Multiplies this value by
the other value. *\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: ULong): ULong =
ULong(this.data.times(other.data))\n\n /** Divides this value by the other value, truncating the result to an integer
that is closer to zero. *\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UByte): ULong =
this.div(other.toULong())\n /** Divides this value by the other value, truncating the result to an integer that is
closer to zero. *\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UShort): ULong =
this.div(other.toULong())\n /** Divides this value by the other value, truncating the result to an integer that is
closer to zero. *\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): ULong =
this.div(other.toULong())\n /** Divides this value by the other value, truncating the result to an integer that is
closer to zero. *\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: ULong): ULong =
ulongDivide(this, other)\n\n /**\n * Calculates the remainder of truncating division of this value by the other
value.\n * \n * The result is always less than the divisor.\n *\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UByte): ULong = this.rem(other.toULong())\n /**\n * Calculates the remainder
of truncating division of this value by the other value.\n * \n * The result is always less than the divisor.\n
*\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): ULong =
this.rem(other.toULong())\n /**\n * Calculates the remainder of truncating division of this value by the other
value.\n * \n * The result is always less than the divisor.\n *\n @kotlin.internal.InlineOnly\n public
inline operator fun rem(other: UInt): ULong = this.rem(other.toULong())\n /**\n * Calculates the remainder of
truncating division of this value by the other value.\n * \n * The result is always less than the divisor.\n
*\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: ULong): ULong = ulongRemainder(this,
other)\n\n /**\n * Divides this value by the other value, flooring the result to an integer that is closer to negative
infinity.\n * \n * For unsigned types, the results of flooring division and truncating division are the same.\n
*\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UByte): ULong =
this.floorDiv(other.toULong())\n /**\n * Divides this value by the other value, flooring the result to an integer
that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and truncating
division are the same.\n *\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UShort): ULong
= this.floorDiv(other.toULong())\n /**\n * Divides this value by the other value, flooring the result to an integer
that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and truncating
division are the same.\n *\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: UInt): ULong =
this.floorDiv(other.toULong())\n /**\n * Divides this value by the other value, flooring the result to an integer
that is closer to negative infinity.\n * \n * For unsigned types, the results of flooring division and truncating
division are the same.\n *\n @kotlin.internal.InlineOnly\n public inline fun floorDiv(other: ULong): ULong =
div(other)\n\n /**\n * Calculates the remainder of flooring division of this value by the other value.\n * \n *
The result is always less than the divisor.\n * \n * For unsigned types, the remainders of flooring division and
truncating division are the same.\n *\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UByte):
UByte = this.mod(other.toULong()).toUByte()\n /**\n * Calculates the remainder of flooring division of this
value by the other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the
remainders of flooring division and truncating division are the same.\n *\n @kotlin.internal.InlineOnly\n
public inline fun mod(other: UShort): UShort = this.mod(other.toULong()).toUShort()\n /**\n * Calculates the
remainder of flooring division of this value by the other value.\n * \n * The result is always less than the
divisor.\n * \n * For unsigned types, the remainders of flooring division and truncating division are the same.\n
*\n @kotlin.internal.InlineOnly\n public inline fun mod(other: UInt): UInt =
this.mod(other.toULong()).toUInt()\n /**\n * Calculates the remainder of flooring division of this value by the

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other value.\n * \n * The result is always less than the divisor.\n * \n * For unsigned types, the remainders
of flooring division and truncating division are the same.\n * \n @kotlin.internal.InlineOnly\n public inline
fun mod(other: ULong): ULong = rem(other)\n\n /**\n * Returns this value incremented by one.\n * \n *
@sample samples.misc.Builtins.inc\n * \n @kotlin.internal.InlineOnly\n public inline operator fun inc():
ULong = ULong(data.inc())\n\n /**\n * Returns this value decremented by one.\n * \n * @sample
samples.misc.Builtins.dec\n * \n @kotlin.internal.InlineOnly\n public inline operator fun dec(): ULong =
ULong(data.dec())\n\n /**\n * Creates a range from this value to the specified [other] value. *\n
@kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: ULong): ULongRange =
ULongRange(this, other)\n\n /**\n * Shifts this value left by the [bitCount] number of bits.\n * \n * Note
that only the six lowest-order bits of the [bitCount] are used as the shift distance.\n * The shift distance actually
used is therefore always in the range `0..63`.\n * \n @kotlin.internal.InlineOnly\n public inline infix fun
shl(bitCount: Int): ULong = ULong(data shl bitCount)\n\n /**\n * Shifts this value right by the [bitCount]
number of bits, filling the leftmost bits with zeros.\n * \n * Note that only the six lowest-order bits of the
[bitCount] are used as the shift distance.\n * The shift distance actually used is therefore always in the range
`0..63`.\n * \n @kotlin.internal.InlineOnly\n public inline infix fun shr(bitCount: Int): ULong = ULong(data
ushr bitCount)\n\n /**\n * Performs a bitwise AND operation between the two values. *\n
@kotlin.internal.InlineOnly\n public inline infix fun and(other: ULong): ULong = ULong(this.data and
other.data)\n\n /**\n * Performs a bitwise OR operation between the two values. *\n @kotlin.internal.InlineOnly\n
public inline infix fun or(other: ULong): ULong = ULong(this.data or other.data)\n\n /**\n * Performs a bitwise XOR
operation between the two values. *\n @kotlin.internal.InlineOnly\n public inline infix fun xor(other: ULong):
ULong = ULong(this.data xor other.data)\n\n /**\n * Inverts the bits in this value. *\n @kotlin.internal.InlineOnly\n
public inline fun inv(): ULong = ULong(data.inv())\n\n /**\n * Converts this [ULong] value to [Byte].\n * \n
* If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n * the same
numerical value as this `ULong`.\n * \n * The resulting `Byte` value is represented by the least significant 8 bits
of this `ULong` value.\n * Note that the resulting `Byte` value may be negative.\n * \n
@kotlin.internal.InlineOnly\n public inline fun toByte(): Byte = data.toByte()\n\n /**\n * Converts this [ULong]
value to [Short].\n * \n * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value
represents\n * 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 /**\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\n * 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 /**\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\n * 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 /**\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\n * 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 /**\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\n * 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 /**\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\n * 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

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@kotlin.internal.InlineOnly\n public inline fun toUInt(): UInt = data.toUInt()\n /** Returns this value. */\n
@kotlin.internal.InlineOnly\n public inline fun toULong(): ULong = this\n\n /**\n * Converts this [ULong] value to [Float].\n * The resulting value is the closest `Float` to this `ULong` value.\n * In case when this `ULong` value is exactly between two `Float`s,\n * the one with zero at least significant bit of mantissa is selected.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toFloat(): Float = this.toDouble().toFloat()\n\n /**\n * Converts this [ULong] value to [Double].\n * The resulting value is the closest `Double` to this `ULong` value.\n * In case when this `ULong` value is exactly between two `Double`s,\n * the one with zero at least significant bit of mantissa is selected.\n */\n
@kotlin.internal.InlineOnly\n public inline fun toDouble(): Double = ulongToDouble(data)\n\n public override fun toString(): String = ulongToString(data)\n\n}\n\n/**\n * Converts this [Byte] value to [ULong].\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Byte`.\n * The least significant 8 bits of the resulting `ULong` value are the same as the bits of this `Byte` value,\n * whereas the most significant 56 bits are filled with the sign bit of this value.\n */\n
@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Byte.toULong(): ULong = ULong(this.toLong())\n\n/**\n * Converts this [Short] value to [ULong].\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Short`.\n * The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `Short` value,\n * whereas the most significant 48 bits are filled with the sign bit of this value.\n */\n
@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.toULong(): ULong = ULong(this.toLong())\n\n/**\n * Converts this [Int] value to [ULong].\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Int`.\n * The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `Int` value,\n * whereas the most significant 32 bits are filled with the sign bit of this value.\n */\n
@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Int.toULong(): ULong = ULong(this.toLong())\n\n/**\n * Converts this [Long] value to [ULong].\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Long`.\n * The resulting `ULong` value has the same binary representation as this `Long` value.\n */\n
@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Long.toULong(): ULong = ULong(this)\n\n/**\n * Converts this [Float] value to [ULong].\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Float` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.\n */\n
@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Float.toULong(): ULong = doubleToULong(this.toDouble())\n\n/**\n * Converts this [Double] value to [ULong].\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Double` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.\n */\n
@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun Double.toULong(): ULong = doubleToULong(this)\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage kotlin.collections\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the list.\n * \n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 1.\n */\n
@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component1(): T {\n return get(0)\n}\n\n/**\n * Returns 2nd *element* from the list.\n * \n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 2.\n */\n
@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component2(): T {\n return get(1)\n}\n\n/**\n * Returns 3rd *element* from the list.\n * \n * Throws an [IndexOutOfBoundsException] if the size of this list is less than 3.\n */\n
@kotlin.internal.InlineOnly\npublic inline

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operator fun <T> List<T>.component3(): T {
 return get(2)
}
/**
 * Returns 4th *element* from the list.
 *
 * Throws an [IndexOutOfBoundsException] if the size of this list is less than 4.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component4(): T {
 return get(3)
}
/**
 * Returns 5th *element* from the list.
 *
 * Throws an [IndexOutOfBoundsException] if the size of this list is less than 5.
 */
@kotlin.internal.InlineOnly
public inline operator fun <T> List<T>.component5(): T {
 return get(4)
}
/**
 * Returns `true` if [element] is found in the collection.
 */
public operator fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.contains(element: T): Boolean {
 if (this is Collection)
 return contains(element)
 return indexOf(element) >= 0
}
/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this collection.
 */
@sample samples.collections.Collections.Elements.elementAt
public fun <T> Iterable<T>.elementAt(index: Int): T {
 if (this is List)
 return get(index)
 return elementAtOrElse(index) { throw IndexOutOfBoundsException("Collection doesn't contain element at index $index.") }
}
/**
 * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this list.
 */
@sample samples.collections.Collections.Elements.elementAt
public fun <T> List<T>.elementAt(index: Int): T {
 return get(index)
}
/**
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this collection.
 */
@sample samples.collections.Collections.Elements.elementAtOrElse
public fun <T> Iterable<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {
 if (this is List)
 return this.getOrElse(index, defaultValue)
 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 the result of calling the [defaultValue] function if the [index] is out of bounds of this list.
 */
@sample samples.collections.Collections.Elements.elementAtOrElse
public fun <T> List<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {
 return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
}
/**
 * Returns an element at the given [index] or `null` if the [index] is out of bounds of this collection.
 */
@sample samples.collections.Collections.Elements.elementAtOrNull
public fun <T> Iterable<T>.elementAtOrNull(index: Int): T? {
 if (this is List)
 return this.getOrElse(index, null)
 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 an element at the given [index] or `null` if the [index] is out of bounds of this list.
 */
@sample samples.collections.Collections.Elements.elementAtOrNull
public fun <T> List<T>.elementAtOrNull(index: Int): T? {
 return this.getOrElse(index, null)
}
/**
 * Returns the first element matching the given [predicate], or `null` if no such element was found.
 */
@sample samples.collections.Collections.Elements.find
public fun <T> Iterable<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.
 */
@sample samples.collections.Collections.Elements.find
public fun <T> Iterable<T>.findLast(predicate: (T) -> Boolean): T? {
 return lastOrNull(predicate)
}
/**
 * Returns the last element matching the given [predicate], or `null` if no such element was found.
 */
@sample samples.collections.Collections.Elements.find
public fun <T> List<T>.findLast(predicate: (T) -> Boolean): T? {
 return lastOrNull(predicate)
}
/**
 * Returns first element.
 *
 * @throws [NoSuchElementException] if the collection is empty.
 */
public fun <T> Iterable<T>.first(): T {
 when (this) {
 is List -> return this.first()
 else -> {
 val iterator = iterator()
 if (!iterator.hasNext())
 throw NoSuchElementException("Collection is empty.")
 return iterator.next()
 }
 }
}
/**
 * Returns first element.
 *
 * @throws [NoSuchElementException] if the list is empty.
 */
public fun <T> List<T>.first(): T {
 if (isEmpty())
 throw

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NoSuchElementException("List is empty.")\n return this[0]\n}\n\n/**\n * Returns the first element matching the
given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun <T>
Iterable<T>.first(predicate: (T) -> Boolean): T {\n for (element in this) if (predicate(element)) return element\n
throw NoSuchElementException("Collection contains no element matching the predicate.")\n}\n\n/**\n * Returns
the first non-null value produced by [transform] function being applied to elements of this collection in iteration
order,\n * or throws [NoSuchElementException] if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n
*/\n\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any>
Iterable<T>.firstNotNullOf(transform: (T) -> R?): R {\n return firstNotNullOfOrNull(transform) ?: throw
NoSuchElementException("No element of the collection was transformed to a non-null value.")\n}\n\n/**\n *
Returns the first non-null value produced by [transform] function being applied to elements of this collection in
iteration order,\n * or `null` if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n
*/\n\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Any>
Iterable<T>.firstNotNullOfOrNull(transform: (T) -> R?): R? {\n for (element in this) {\n val result =
transform(element)\n if (result != null) {\n return result\n }\n }\n return null\n}\n\n/**\n *
Returns the first element, or `null` if the collection is empty.\n */\npublic fun <T> Iterable<T>.firstOrNull(): T? {\n
when (this) {\n is List -> {\n if (isEmpty())\n return null\n else\n return this[0]\n }\n else -> {\n val iterator = iterator()\n if (!iterator.hasNext())\n return null\n return iterator.next()\n }\n}\n}\n\n/**\n * Returns the first element, or `null` if the list is empty.\n */\npublic
fun <T> List<T>.firstOrNull(): T? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element
matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun <T>
Iterable<T>.firstOrNull(predicate: (T) -> Boolean): T? {\n for (element in this) if (predicate(element)) return
element\n return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the
[defaultValue] function if the [index] is out of bounds of this list.\n */\n@kotlin.internal.InlineOnly\npublic inline
fun <T> List<T>.getOrNull(index: Int, defaultValue: (Int) -> T): T {\n return if (index >= 0 && index <=
lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the
[index] is out of bounds of this list.\n * \n * @sample samples.collections.Collections.Elements.getOrNull\n
*/\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> List<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n var index = 0\n
for (item in this) {\n if (predicate(item))\n return index\n index++\n }\n return -1\n}\n\n/**\n *
Returns index of the last element matching the given [predicate], or -1 if the collection does not contain such
element.\n */\npublic inline fun <T> Iterable<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n var lastIndex = -
1\n var index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (predicate(item))\n
lastIndex = index\n index++\n }\n return lastIndex\n}\n\n/**\n * Returns index of the last element matching
the given [predicate], or -1 if the list does not contain such element.\n */\npublic inline fun <T>
List<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n val iterator = this.listIterator(size)\n while

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(iterator.hasPrevious()) {\n if (predicate(iterator.previous())) {\n return iterator.nextIndex()\n }\n}\n return -1\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the collection\n is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> Iterable<T>.last(): T\n {\n when (this) {\n is List -> return this.last()\n else -> {\n val iterator = iterator()\n if\n (!iterator.hasNext())\n throw NoSuchElementException("Collection is empty.")\n var last =\n iterator.next()\n while (iterator.hasNext())\n last = iterator.next()\n return last\n }\n }\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the list is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> List<T>.last(): T {\n if (isEmpty())\n throw NoSuchElementException("List is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the last\n element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline fun <T>\n Iterable<T>.last(predicate: (T) -> Boolean): T {\n var last: T? = null\n var found = false\n for (element in this)\n {\n if (predicate(element)) {\n last = element\n found = true\n }\n }\n if (!found) throw\n NoSuchElementException("Collection contains no element matching the predicate.")\n}\n\n@Suppress("UNCHECKED_CAST")\n return last as T\n}\n\n/**\n * Returns the last element matching the\n given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample\n samples.collections.Collections.Elements.last\n */\npublic inline fun <T> List<T>.last(predicate: (T) -> Boolean): T\n {\n val iterator = this.listIterator(size)\n while (iterator.hasPrevious()) {\n val element = iterator.previous()\n if (predicate(element)) return element\n }\n throw NoSuchElementException("List contains no element\n matching the predicate.")\n}\n\n/**\n * Returns last index of [element], or -1 if the collection does not contain\n element.\n * \n * @kotlin.internal.OnlyInputTypes T> Iterable<T>.lastIndexOf(element: T): Int {\n if\n (this is List) return this.lastIndexOf(element)\n var lastIndex = -1\n var index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (element == item)\n lastIndex = index\n index++\n }\n return\n lastIndex\n}\n\n/**\n * Returns last index of [element], or -1 if the list does not contain element.\n */\n\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning, extension takes precedence in\n some cases\npublic fun <@kotlin.internal.OnlyInputTypes T> List<T>.lastIndexOf(element: T): Int {\n return\n lastIndexOf(element)\n}\n\n/**\n * Returns the last element, or `null` if the collection is empty.\n * \n * @sample\n samples.collections.Collections.Elements.last\n */\npublic fun <T> Iterable<T>.lastOrNull(): T? {\n when (this)\n {\n is List -> return if (isEmpty()) null else this[size - 1]\n else -> {\n val iterator = iterator()\n if (!iterator.hasNext())\n return null\n var last = iterator.next()\n while (iterator.hasNext())\n last = iterator.next()\n return last\n }\n }\n}\n\n/**\n * Returns the last element, or `null` if the\n list is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T>\n List<T>.lastOrNull(): T? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element\n matching the given [predicate], or `null` if no such element was found.\n * \n * @sample\n samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Iterable<T>.lastOrNull(predicate: (T) ->\n Boolean): T? {\n var last: T? = null\n for (element in this) {\n if (predicate(element)) {\n last =\n element\n }\n }\n return last\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null`\n if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n */\npublic inline\n fun <T> List<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n val iterator = this.listIterator(size)\n while\n (iterator.hasPrevious()) {\n val element = iterator.previous()\n if (predicate(element)) return element\n }\n return\n null\n}\n\n/**\n * Returns a random element from this collection.\n * \n * @throws\n NoSuchElementException if this collection is empty.\n */\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.random(): T {\n return\n random(Random)\n}\n\n/**\n * Returns a random element from this collection using the specified source of\n randomness.\n * \n * @throws NoSuchElementException if this collection is empty.\n */\n\n@SinceKotlin("1.3")\npublic fun <T> Collection<T>.random(random: Random): T {\n if (isEmpty())\n throw\n NoSuchElementException("Collection is empty.")\n return\n elementAt(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this collection, or `null` if this collection is empty.\n */\n
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*\/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)n@kotlin.internal.InlineOnlynpublic
c inline fun <T> Collection<T>.randomOrNull(): T? {n return randomOrNull(Random)n}n/n/**n * Returns a
random element from this collection using the specified source of randomness, or `null` if this collection is empty.n
*\/n@SinceKotlin("1.4")n@WasExperimental(ExperimentalStdlibApi::class)npublic fun <T>
Collection<T>.randomOrNull(random: Random): T? {n if (isEmpty())n return nulln 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 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
NoSuchElementException("List is empty.")n 1 -> this[0]n else -> throw
IllegalArgumentException("List has more than one element.")n }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? = nulln var found = false\n
for (element in this) {n if (predicate(element)) {n if (found) throw
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 @Suppress("UNCHECKED_CAST")n return 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 =
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? = nulln 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> 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
return list\n }n }n else {n list = ArrayList<T>()\n }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 * 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> List<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 elements that satisfy the given
[predicate].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 =
listIterator(size)n while (iterator.hasPrevious()) {n if (!predicate(iterator.previous())) {n return
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

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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 * \n *
@sample samples.collections.Collections.Filtering.filter\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 * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n *^\\npublic inline fun <T>
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 * @param [predicate] function that takes the index of an element and the element itself\n *
and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n *^\\npublic inline fun <T, C : MutableCollection<in T>>
Iterable<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n forEachIndexed { index,
element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n *
Returns a list containing all elements that are instances of specified type parameter R.\n * \n * @sample
samples.collections.Collections.Filtering.filterIsInstance\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 * \n * @sample
samples.collections.Collections.Filtering.filterIsInstanceTo\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 * \n * @sample samples.collections.Collections.Filtering.filter\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 * \n * @sample
samples.collections.Collections.Filtering.filterNotNull\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 * \n * @sample samples.collections.Collections.Filtering.filterNotNullTo\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 * \n * @sample samples.collections.Collections.Filtering.filterTo\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 * \n *
@sample samples.collections.Collections.Filtering.filterTo\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 * @throws IllegalArgumentException if [n] is negative.\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

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sortedWith(compareByDescending(selector))\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 result\n}\n\n/\*\*\n \* Returns an array of Byte containing all of the elements of this collection.\n \*/\npublic fun Collection<Byte>.toByteArray(): 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>.toCharArray(): 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 \* 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 \* and value is provided by the [valueTransform] function applied to elements of the given collection.\n \* \n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \* \n \* @sample samples.collections.Collections.Transformations.associateByToWithValueTransform\n \*/\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs\n \* provided by [transform] function applied to each element of the given collection.\n \* \n \* If any of two pairs would have the same key the last one gets added to the map.\n \* \n \* @sample samples.collections.Collections.Transformations.associateTo\n \*/\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Iterable<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/\*\*\n \* Returns a [Map] where keys are elements from the given collection and values are\n \* produced by the [valueSelector] function applied to each element.\n \* \n \* If any two elements are equal, the last one gets added to the map.\n \* \n \* The returned map preserves the entry iteration order of the original collection.\n \* \n \* @sample samples.collections.Collections.Transformations.associateWith\n \*/\n@SinceKotlin("1.3")\npublic inline fun <K, V> Iterable<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n val result = LinkedHashMap<K, V>(mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/\*\*\n \* Populates and returns the [destination] mutable map with key-value pairs for each element of the given collection,\n \* where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n \* \n \* If any two elements are equal, the last one overwrites the former value in the map.\n \* \n \* @sample samples.collections.Collections.Transformations.associateWithTo\n \*/\n@SinceKotlin("1.3")\npublic inline fun <K, V, M : MutableMap<in K, in V>> Iterable<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/\*\*\n \* Appends all elements to the given [destination] collection.\n \*/\npublic fun <T, C : MutableCollection<in T>> Iterable<T>.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/\*\*\n \* Returns a new [HashSet] of all elements.\n \*/\npublic fun <T> Iterable<T>.toHashSet(): HashSet<T> {\n return toCollection(HashSet<T>(mapCapacity(collectionSizeOrDefault(12))))\n}\n\n/\*\*\n \* Returns a [List] containing all elements.\n \*/\npublic fun <T> Iterable<T>.toList(): List<T> {\n if (this is Collection) {\n return when (size) {\n 0 -> emptyList()\n 1 -> listOf(if (this is List) get(0) else iterator().next())\n else -> this.toMutableList()\n }\n }\n return this.toMutableList().optimizeReadOnlyList()\n}\n\n/\*\*\n \* Returns a new [MutableList] filled with all elements of this collection.\n \*/\npublic fun <T> Iterable<T>.toMutableList(): MutableList<T> {\n if (this is Collection<T>)\n return this.toMutableList()\n return toCollection(ArrayList<T>())\n}\n\n/\*\*\n \* Returns a new [MutableList] filled with all elements of this collection.\n \*/\npublic fun <T> Collection<T>.toMutableList(): MutableList<T> {\n return ArrayList(this)\n}\n\n/\*\*\n \* Returns a [Set] of all elements.\n \* \n \* The returned set preserves the element iteration order of the original collection.\n \*/\npublic fun <T> Iterable<T>.toSet(): Set<T> {\n if (this is Collection) {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(if (this is List) this[0] else iterator().next())\n else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))\n }\n }\n return toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n}\n\n/\*\*\n \* Returns a single list of all elements



corresponding elements.

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 * The returned map preserves the entry iteration order of the keys produced from the
 * original collection.
 * @sample samples.collections.Collections.Transformations.groupBy
 * public inline
 fun <T, K> Iterable<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {
 return
 groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)
 }
 * Groups values returned by the
 * [valueTransform] function applied to each element of the original collection
 * by the key returned by the given
 * [keySelector] function applied to the element
 * and returns a map where each group key is associated with a list of
 * corresponding values.
 * The returned map preserves the entry iteration order of the keys produced from the
 * original collection.
 * @sample samples.collections.Collections.Transformations.groupByKeysAndValues
 * public inline fun <T, K, V> Iterable<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K,
 List<V>> {
 return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector,
 valueTransform)
 }
 * Groups elements of the original collection by the key returned by the given
 * [keySelector] function
 * applied to each element and puts to the [destination] map each group key associated with
 * a list of corresponding elements.
 * @return The [destination] map.
 * @sample
 samples.collections.Collections.Transformations.groupBy
 * public inline fun <T, K, M : MutableMap<in K,
 MutableList<T>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K): M {
 for (element in this) {
 val key = keySelector(element)
 val list = destination.getOrPut(key) { ArrayList<T>() }
 list.add(element)
 }
 return destination
 }
 * Groups values returned by the [valueTransform] function
 * applied to each element of the original collection
 * by the key returned by the given [keySelector] function applied
 * to the element
 * and puts to the [destination] map each group key associated with a list of corresponding values.
 * @return The [destination] map.
 * @sample
 samples.collections.Collections.Transformations.groupByKeysAndValues
 * public inline fun <T, K, V, M :
 MutableMap<in K, MutableList<V>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K,
 valueTransform: (T) -> V): M {
 for (element in this) {
 val key = keySelector(element)
 val list =
 destination.getOrPut(key) { ArrayList<V>() }
 list.add(valueTransform(element))
 }
 return
 destination
 }
 * Creates a [Grouping] source from a collection to be used later with one of group-and-fold
 * operations
 * using the specified [keySelector] function to extract a key from each element.
 * @sample
 samples.collections.Grouping.groupingByEachCount
 * @Since Kotlin("1.1")
 * public inline fun <T, K>
 Iterable<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {
 return object : Grouping<T, K> {
 override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()
 override fun keyOf(element:
 T): K = keySelector(element)
 }
 }
 * Returns a list containing the results of applying the given
 * [transform] function
 * to each element in the original collection.
 * @sample
 samples.collections.Collections.Transformations.map
 * public inline fun <T, R> Iterable<T>.map(transform:
 (T) -> R): List<R> {
 return mapTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)
 }
 * Returns a list containing the results of applying the given [transform] function
 * to each element and its index in
 * the original collection.
 * @param [transform] function that takes the index of an element and the element itself
 * and returns the result of the transform applied to the element.
 * public inline fun <T, R>
 Iterable<T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {
 return
 mapIndexedTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)
 }
 * Returns a list containing only
 * the non-null results of applying the given [transform] function
 * to each element and its index in the original
 * collection.
 * @param [transform] function that takes the index of an element and the element itself
 * and returns
 * the result of the transform applied to the element.
 * public inline fun <T, R : Any>
 Iterable<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {
 return
 mapIndexedNotNullTo(ArrayList<R>(), transform)
 }
 * Applies the given [transform] function to each
 * element and its index in the original collection
 * and appends only the non-null results to the given [destination].
 * @param [transform] function that takes the index of an element and the element itself
 * and returns the result of
 * the transform applied to the element.
 * public inline fun <T, R : Any, C : MutableCollection<in R>>
 Iterable<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {
 forEachIndexed {
 index, element -> transform(index, element)?.let { destination.add(it) }
 }
 return destination
 }
 *

```

Applies the given [transform] function to each element and its index in the original collection and appends the results to the given [destination].

```

@public inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {
 var index = 0
 for (item in this)
 destination.add(transform(checkIndexOverflow(index++), item))
 return destination
}

```

Returns a list containing only the non-null results of applying the given [transform] function to each element in the original collection.

```

@sample
samples.collections.Collections.Transformations.mapNotNull

```

```

@public inline fun <T, R : Any> Iterable<T>.mapNotNull(transform: (T) -> R?): List<R> {
 return mapNotNullTo(ArrayList<R>(), transform)
}

```

Applies the given [transform] function to each element in the original collection and appends only the non-null results to the given [destination].

```

@public inline fun <T, R : Any, C : MutableCollection<in R>> Iterable<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {
 forEach { element -> transform(element)?.let { destination.add(it) } }
 return destination
}

```

Applies the given [transform] function to each element of the original collection and appends the results to the given [destination].

```

@public inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapTo(destination: C, transform: (T) -> R): C {
 for (item in this)
 destination.add(transform(item))
 return destination
}

```

Returns a lazy [Iterable] that wraps each element of the original collection into an [IndexedValue] containing the index of that element and the element itself.

```

@public fun <T> Iterable<T>.withIndex(): Iterable<IndexedValue<T>> {
 return IndexingIterable { iterator() }
}

```

Returns a list containing only distinct elements from the given collection. Among equal elements of the given collection, only the first one will be present in the resulting list. The elements in the resulting list are in the same order as they were in the source collection.

```

@sample
samples.collections.Collections.Transformations.distinctAndDistinctBy

```

```

@public fun <T> Iterable<T>.distinct(): List<T> {
 return this.toMutableSet().toList()
}

```

Returns a list containing only elements from the given collection having distinct keys returned by the given [selector] function. Among elements of the given collection with equal keys, only the first one will be present in the resulting list. The elements in the resulting list are in the same order as they were in the source collection.

```

@sample
samples.collections.Collections.Transformations.distinctAndDistinctBy

```

```

@public inline fun <T, K> Iterable<T>.distinctBy(selector: (T) -> K): List<T> {
 val set = HashSet<K>()
 val list = ArrayList<T>()
 for (e in this) {
 val key = selector(e)
 if (set.add(key))
 list.add(e)
 }
 return list
}

```

Returns a set containing all elements that are contained by both this collection and the specified collection. The returned set preserves the element iteration order of the original collection. To get a set containing all elements that are contained at least in one of these collections use [union].

```

@public infix fun <T> Iterable<T>.intersect(other: Iterable<T>): Set<T> {
 val set = this.toMutableSet()
 set.retainAll(other)
 return set
}

```

Returns a set containing all elements that are contained by this collection and not contained by the specified collection. The returned set preserves the element iteration order of the original collection.

```

@public infix fun <T> Iterable<T>.subtract(other: Iterable<T>): Set<T> {
 val set = this.toMutableSet()
 set.removeAll(other)
 return set
}

```

Returns a new [MutableSet] containing all distinct elements from the given collection. The returned set preserves the element iteration order of the original collection.

```

@public fun <T> Iterable<T>.toMutableSet(): MutableSet<T> {
 return when (this) {
 is Collection<T> -> LinkedHashSet(this)
 else -> toCollection(LinkedHashSet<T>())
 }
}

```

Returns a set containing all distinct elements from both collections. The returned set preserves the element iteration order of the original collection. Those elements of the [other] collection that are unique are iterated in the end in the order of the [other] collection.

```

@public infix fun <T> Iterable<T>.union(other: Iterable<T>): Set<T> {
 val set = this.toMutableSet()
 set.addAll(other)
 return set
}

```

Returns `true` if all elements match the given [predicate].

```

@sample
samples.collections.Collections.Aggregates.all

```

```

@public inline fun <T> Iterable<T>.all(predicate: (T) -> Boolean): Boolean {
 if (this is Collection && isEmpty()) return true
 for

```

```

(element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if collection has at
least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n * \npublic fun <T>
Iterable<T>.any(): Boolean {\n if (this is Collection) return isEmpty()\n return iterator().hasNext()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n * \npublic inline fun <T>
Iterable<T>.any(predicate: (T) -> Boolean): Boolean {\n if (this is Collection && isEmpty()) return false\n for
(element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns the number of elements in
this collection.\n * \npublic fun <T> Iterable<T>.count(): Int {\n if (this is Collection) return size\n var count =
0\n for (element in this) checkCountOverflow(++count)\n return count\n}\n\n/**\n * Returns the number of
elements in this collection.\n * \npublic inline fun <T> Collection<T>.count(): Int {\n
return size\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n * \npublic inline fun <T>
Iterable<T>.count(predicate: (T) -> Boolean): Int {\n if (this is Collection && isEmpty()) return 0\n var count =
0\n for (element in this) if (predicate(element)) checkCountOverflow(++count)\n return count\n}\n\n/**\n *
Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator
value and each element.\n * \n * Returns the specified [initial] value if the collection is empty.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \npublic inline fun <T, R> Iterable<T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n var
accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original collection.\n * \n * Returns the
specified [initial] value if the collection is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n
*\npublic inline fun <T, R> Iterable<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n var
index = 0\n var accumulator = initial\n for (element in this) accumulator =
operation(checkIndexOverflow(index++), accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates
value starting with [initial] value and applying [operation] from right to left\n * to each element and current
accumulator value.\n * \n * Returns the specified [initial] value if the list is empty.\n * \n * @param [operation]
function that takes an element and current accumulator value, and calculates the next accumulator value.\n
*\npublic inline fun <T, R> List<T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {\n var accumulator =
initial\n if (!isEmpty()) {\n val iterator = listIterator(size)\n while (iterator.hasPrevious()) {\n
accumulator = operation(iterator.previous(), accumulator)\n }\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with
its index in the original list and current accumulator value.\n * \n * Returns the specified [initial] value if the list is
empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current
accumulator value, and calculates the next accumulator value.\n * \npublic inline fun <T, R>
List<T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {\n var accumulator = initial\n if
(!isEmpty()) {\n val iterator = listIterator(size)\n while (iterator.hasPrevious()) {\n val index =
iterator.previousIndex()\n accumulator = operation(index, iterator.previous(), accumulator)\n }\n }\n
return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n * \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 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@Deprecated("Use maxOrNull instead.")
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Iterable<Double>.max(): Double? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")

```

```

ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Iterable<Float>.max(): Float? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\npublic fun <T : Comparable<T>> Iterable<T>.max(): T? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxByOrNull instead.")
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.maxBy(selector: (T) -> R):
T? {\n return maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the given
function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n * \n@SinceKotlin("1.4")\npublic inline fun <T, R :
Comparable<R>> Iterable<T>.maxByOrNull(selector: (T) -> R): T? {\n val iterator = iterator()\n if
(!iterator.hasNext()) return null\n var maxElem = iterator.next()\n if (!iterator.hasNext()) return maxElem\n var
maxValue = selector(maxElem)\n do {\n val e = iterator.next()\n val v = selector(e)\n if (maxValue <
v) {\n maxElem = e\n maxValue = v\n }\n } while (iterator.hasNext())\n return
maxElem\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the collection.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result
is `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOf(selector: (T) ->
Double): Double {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var
maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n
maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the collection.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException
if the collection is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOf(selector: (T) ->
Float): Float {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var
maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n
maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all
values produced by [selector] function\n * applied to each element in the collection.\n * \n * @throws
NoSuchElementException if the collection is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.maxOf(selector: (T) -> R): R {\n val iterator = iterator()\n if (!iterator.hasNext()) throw
NoSuchElementException()\n var maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v
= selector(iterator.next())\n if (maxValue < v) {\n maxValue = v\n }\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each element in the collection or `null` if there are no elements.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOfOrNull(selector: (T)
-> Double): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var maxValue =
selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * \n * If any
of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.maxOrNull(selector: (T)
-> Float): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var maxValue =
selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Iterable<T>.maxOrNull(selector: (T) -> R): R? {\n val iterator = iterator()\n if (!iterator.hasNext()) return
null\n var maxValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v =
selector(iterator.next())\n if (maxValue < v) {\n maxValue = v\n }\n }\n return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the collection.\n * \n * @throws
NoSuchElementException if the collection is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Iterable<T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n val iterator = iterator()\n if
(!iterator.hasNext()) throw NoSuchElementException()\n var maxValue = selector(iterator.next())\n while
(iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(maxValue, v) < 0) {\n
 maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each element in the collection or `null`
if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Iterable<T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n val iterator =
iterator()\n if (!iterator.hasNext()) return null\n var maxValue = selector(iterator.next())\n while
(iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(maxValue, v) < 0) {\n
 maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest element or `null` if there are no
elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic fun
Iterable<Double>.maxOrNull(): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var
max = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n max = maxOf(max, e)\n
 }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of
elements is `NaN` returns `NaN`.\n *\n@SinceKotlin("1.4")\npublic fun Iterable<Float>.maxOrNull(): Float? {\n
val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n while
(iterator.hasNext()) {\n val e = iterator.next()\n max = maxOf(max, e)\n }\n return max\n}\n\n/**\n *
Returns the largest element or `null` if there are no elements.\n *\n@SinceKotlin("1.4")\npublic fun <T :
Comparable<T>> Iterable<T>.maxOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n
var max = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (max < e) max = e\n
 }\n return max\n}\n\n@Deprecated("Use maxWithOrNull instead.")\n
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun <T> Iterable<T>.maxWith(comparator: Comparator<in T>): T? {\n
return maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the largest value according to the
provided [comparator] or `null` if there are no elements.\n *\n@SinceKotlin("1.4")\npublic fun <T>
Iterable<T>.maxWithOrNull(comparator: Comparator<in T>): T? {\n val iterator = iterator()\n if
(!iterator.hasNext()) return null\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e =
iterator.next()\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n@Deprecated("Use
minOrNull instead.")\nReplaceWith("this.minOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Iterable<Double>.min(): Double?

```

```

{\n return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.\",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\",
hiddenSince = \"1.6\")\n@SinceKotlin("1.1")\npublic fun Iterable<Float>.min(): Float? {\n return
minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.\",
ReplaceWith("this.minOrNull()"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.5\",
hiddenSince = \"1.6\")\npublic fun <T : Comparable<T>> Iterable<T>.min(): T? {\n return
minOrNull()\n}\n\n@Deprecated("Use minByOrNull instead.\",
ReplaceWith("this.minByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince =
\"1.5\", hiddenSince = \"1.6\")\npublic inline fun <T, R : Comparable<R>> Iterable<T>.minBy(selector: (T) -> R):
T? {\n return minByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the smallest value of the
given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n * \n * @SinceKotlin("1.4")\n * \n * public inline fun <T, R :
Comparable<R>> Iterable<T>.minByOrNull(selector: (T) -> R): T? {\n val iterator = iterator()\n if
(!iterator.hasNext()) return null\n var minElem = iterator.next()\n if (!iterator.hasNext()) return minElem\n var
minValue = selector(minElem)\n do {\n val e = iterator.next()\n val v = selector(e)\n if (minValue >
v) {\n minElem = e\n minValue = v\n }\n } while (iterator.hasNext())\n return
minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the collection.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result
is `NaN`.\n * \n * @throws NoSuchElementException if the collection is empty.\n * \n * @SinceKotlin("1.4")\n * \n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * \n * @OverloadResolution
ByLambdaReturnType\n * \n * @kotlin.internal.InlineOnly\n * \n * public inline fun <T> Iterable<T>.minOf(selector: (T) ->
Double): Double {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var
minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n
minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the collection.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException
if the collection is empty.\n * \n * @SinceKotlin("1.4")\n * \n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * \n * @OverloadResolution
ByLambdaReturnType\n * \n * @kotlin.internal.InlineOnly\n * \n * public inline fun <T> Iterable<T>.minOf(selector: (T) ->
Float): Float {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var
minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n
minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the collection.\n * \n * @throws
NoSuchElementException if the collection is empty.\n * \n * @SinceKotlin("1.4")\n * \n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * \n * @OverloadResolution
ByLambdaReturnType\n * \n * @kotlin.internal.InlineOnly\n * \n * public inline fun <T, R : Comparable<R>>
Iterable<T>.minOf(selector: (T) -> R): R {\n val iterator = iterator()\n if (!iterator.hasNext()) throw
NoSuchElementException()\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v
= selector(iterator.next())\n if (minValue > v) {\n minValue = v\n }\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the collection or `null` if there are no elements.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @SinceKotlin("1.4")\n * \n * @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n * \n * @OverloadResolution
ByLambdaReturnType\n * \n * @kotlin.internal.InlineOnly\n * \n * public inline fun <T> Iterable<T>.minOfOrNull(selector: (T)
-> Double): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var minValue =
selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n * \n * If any

```

of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.minOrNull(selector: (T)\n-> Float): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var minValue =\n selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n minValue =\n minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced\n * by [selector] function\n * applied to each element in the collection or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>\nIterable<T>.minOrNull(selector: (T) -> R): R? {\n val iterator = iterator()\n if (!iterator.hasNext()) return\n null\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v =\n selector(iterator.next())\n if (minValue > v) {\n minValue = v\n }\n }\n return\n minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values\n * produced by [selector] function applied to each element in the collection.\n * \n * @throws
```

NoSuchElementException if the collection is empty.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> Iterable<T>.minOfWith(comparator:\nComparator<in R>, selector: (T) -> R): R {\n val iterator = iterator()\n if (!iterator.hasNext()) throw\n NoSuchElementException()\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v\n = selector(iterator.next())\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return\n minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all\n * values produced by [selector] function applied to each element in the collection or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
```

```
Iterable<T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n val iterator =\n iterator()\n if (!iterator.hasNext()) return null\n var minValue = selector(iterator.next())\n while\n (iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(minValue, v) > 0) {\n \n minValue = v\n }\n }\n return\n minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are\n * no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n
```

```
*\n@SinceKotlin("1.4")\npublic fun\nIterable<Double>.minOrNull(): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var\n min = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n min = minOf(min, e)\n }\n return\n 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("1.4")\npublic fun\nIterable<Float>.minOrNull(): Float? {\n val\n iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext())\n {\n val e = iterator.next()\n min = minOf(min, e)\n }\n return\n min\n}\n\n/**\n * Returns the smallest\n * element or `null` if there are no elements.\n * \n * @SinceKotlin("1.4")\npublic fun <T : Comparable<T>>
```

```
Iterable<T>.minOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min =\n iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (min > e) min = e\n }\n return\n min\n}\n\n@Deprecated("Use minWithOrNull instead.")
```

```
ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince\n= "1.5", hiddenSince = "1.6")\npublic fun <T> Iterable<T>.minWith(comparator: Comparator<in T>): T? {\n return\n minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to\n * the provided [comparator] or `null` if there are no elements.\n * \n * @SinceKotlin("1.4")\npublic fun <T>
```

```
Iterable<T>.minWithOrNull(comparator: Comparator<in T>): T? {\n val iterator = iterator()\n if\n (!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e =\n iterator.next()\n if (comparator.compare(min, e) > 0) min = e\n }\n return\n min\n}\n\n/**\n * Returns `true` if\n * the collection has no elements.\n * \n * @sample\n * samples.collections.Collections.Aggregates.none\n * \n * @public fun\n * <T> Iterable<T>.none(): Boolean {\n if (this is Collection) return isEmpty()\n return
```

```

iterator().hasNext()\n\n**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *^\npublic inline fun <T>
Iterable<T>.none(predicate: (T) -> Boolean): Boolean {\n if (this is Collection && isEmpty()) return true\n for
(element in this) if (predicate(element)) return false\n return true\n}\n\n**\n * Performs the given [action] on each
element and returns the collection itself afterwards.\n *^\n@SinceKotlin("1.1")\npublic inline fun <T, C :
Iterable<T>> C.onEach(action: (T) -> Unit): C {\n return apply { for (element in this) action(element)
}\n}\n\n**\n * Performs the given [action] on each element, providing sequential index with the element,\n * and
returns the collection itself afterwards.\n * @param [action] function that takes the index of an element and the
element itself\n * and performs the action on the element.\n *^\n@SinceKotlin("1.4")\npublic inline fun <T, C :
Iterable<T>> C.onEachIndexed(action: (index: Int, T) -> Unit): C {\n return apply { forEachIndexed(action)
}\n}\n\n**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to
current accumulator value and each element.\n * \n * Throws an exception if this collection is empty. If the
collection can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver
is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and
calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n *^\npublic inline fun <S, T : S> Iterable<T>.reduce(operation: (acc: S, T) -> S): S {\n val iterator = this.iterator()\n
if (!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't be reduced.")\n var
accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator = operation(accumulator,
iterator.next())\n }\n return accumulator\n}\n\n**\n * Accumulates value starting with the first element and
applying [operation] from left to right\n * to current accumulator value and each element with its index in the
original collection.\n * \n * Throws an exception if this collection is empty. If the collection can be empty in an
expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes the index of an element, current accumulator value and the element itself,\n
* and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n *^\npublic inline fun <S, T : S> Iterable<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n val
iterator = this.iterator()\n if (!iterator.hasNext()) throw UnsupportedOperationException("Empty collection can't
be reduced.")\n var index = 1\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n
accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n }\n return
accumulator\n}\n\n**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original collection.\n * \n * Returns
`null` if the collection is empty.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n *^\n@SinceKotlin("1.4")\npublic inline fun <S, T : S>
Iterable<T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {\n val iterator = this.iterator()\n
if (!iterator.hasNext()) return null\n var index = 1\n var accumulator: S = iterator.next()\n while
(iterator.hasNext()) {\n accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n
}\n return accumulator\n}\n\n**\n * Accumulates value starting with the first element and applying [operation]
from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the collection is
empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates
the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n *^\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
Iterable<T>.reduceOrNull(operation: (acc: S, T) -> S): S? {\n val iterator = this.iterator()\n if
(!iterator.hasNext()) return null\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n
accumulator = operation(accumulator, iterator.next())\n }\n return accumulator\n}\n\n**\n * Accumulates value
starting with the last element and applying [operation] from right to left\n * to each element and current accumulator
value.\n * \n * Throws an exception if this list is empty. If the list can be empty in an expected way,\n * please
use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function
that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample

```

```

samples.collections.Collections.Aggregates.reduceRight\n *^\npublic inline fun <S, T : S>
List<T>.reduceRight(operation: (T, acc: S) -> S): S {\n val iterator = listIterator(size)\n if
(iterator.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 the last element and applying [operation] from right to left\n * to each element with its index in the original list
and current accumulator value.\n * \n * Throws an exception if this list is empty. If the list can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *^\npublic inline fun <S, T : S>
List<T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n val iterator = listIterator(size)\n if
(iterator.hasPrevious())\n throw UnsupportedOperationException("Empty list can't be reduced.")\n var
accumulator: S = iterator.previous()\n while (iterator.hasPrevious()) {\n val index = iterator.previousIndex()\n
 accumulator = operation(index, iterator.previous(), accumulator)\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with
its index in the original list and current accumulator value.\n * \n * Returns `null` if the list is empty.\n * \n *
@param [operation] function that takes the index of an element, the element itself and current accumulator value,\n
* and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n *^\n@SinceKotlin("1.4")\npublic inline fun <S,
T : S> List<T>.reduceRightIndexedOrNull(operation: (index: Int, T, acc: S) -> S): S? {\n val iterator =
listIterator(size)\n if (!iterator.hasPrevious())\n return null\n var accumulator: S = iterator.previous()\n
while (iterator.hasPrevious()) {\n val index = iterator.previousIndex()\n accumulator = operation(index,
iterator.previous(), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n *
Returns `null` if the list is empty.\n * \n * @param [operation] function that takes an element and current
accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*^\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
List<T>.reduceRightOrNull(operation: (T, acc: S) -> S): S? {\n val iterator = listIterator(size)\n if
(iterator.hasPrevious())\n return null\n var accumulator: S = iterator.previous()\n while
(iterator.hasPrevious()) {\n accumulator = operation(iterator.previous(), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n
* Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n *^\n@SinceKotlin("1.4")\npublic inline fun <T, R>
Iterable<T>.runningFold(initial: R, operation: (acc: R, T) -> R): List<R> {\n val estimatedSize =
collectionSizeOrDefault(9)\n if (estimatedSize == 0) return listOf(initial)\n val result =
ArrayList<R>(estimatedSize + 1).apply { add(initial) }\n 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.runningFold\n *^\n@SinceKotlin("1.4")\npublic inline fun <T, R>

```

```

Iterable<T>.runningFoldIndexed(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
(element in this) {\n accumulator = operation(index++, 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 the first element of
this collection.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it
would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator
value and the element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <S, T : S>
Iterable<T>.runningReduce(operation: (acc: S, T) -> S): List<S> {\n val iterator = this.iterator()\n if
(!iterator.hasNext()) return emptyList()\n var accumulator: S = iterator.next()\n val result =
ArrayList<S>(collectionSizeOrDefault(10)).apply { add(accumulator) }\n while (iterator.hasNext()) {\n
accumulator = operation(accumulator, iterator.next())\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 the
first element of this collection.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n
* otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*/\n@SinceKotlin("1.4")\npublic inline fun <S, T : S> Iterable<T>.runningReduceIndexed(operation: (index: Int,
acc: S, T) -> S): List<S> {\n val iterator = this.iterator()\n if (!iterator.hasNext()) return emptyList()\n var
accumulator: S = iterator.next()\n val result = ArrayList<S>(collectionSizeOrDefault(10)).apply {\n
add(accumulator) }\n var index = 1\n while (iterator.hasNext()) {\n accumulator = operation(index++,
accumulator, iterator.next())\n result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element
and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation]
function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param
[operation] function that takes current accumulator value and an element, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R>
Iterable<T>.scan(initial: R, operation: (acc: R, T) -> R): List<R> {\n return runningFold(initial,
operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation]
from left to right\n * to each element, 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("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <T, R>
Iterable<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): List<R> {\n return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the collection.\n * \n * @Deprecated("Use sumOf instead.")\n * ReplaceWith("this.sumOf(selector)")\n * @DeprecatedSinceKotlin(warningSince = "1.5")\n * public inline fun <T>
Iterable<T>.sumBy(selector: (T) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the collection.\n * \n * @Deprecated("Use sumOf instead.")\n * ReplaceWith("this.sumOf(selector)")\n * @DeprecatedSinceKotlin(warningSince = "1.5")\n * 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 the sum of all values produced by
[selector] function applied to each element in the collection.
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfDouble")
@kotlin.internal.InlineOnly
public inline fun
<T> Iterable<T>.sumOf(selector: (T) -> Double): Double {
 var sum: Double = 0.toDouble()
 for (element in
this)
 sum += selector(element)
 return sum
}
/** Returns the sum of all values produced by
[selector] function applied to each element in the collection.
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfInt")
@kotlin.internal.InlineOnly
public inline fun <T>
Iterable<T>.sumOf(selector: (T) -> Int): Int {
 var sum: Int = 0.toInt()
 for (element in this)
 sum +=
selector(element)
 return sum
}
/** Returns the sum of all values produced by [selector] function
applied to each element in the collection.
*/
@SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfLong")
@kotlin.internal.InlineOnly
public inline fun
<T> Iterable<T>.sumOf(selector: (T) -> Long): Long {
 var sum: Long = 0.toLong()
 for (element in this)
 sum +=
selector(element)
 return sum
}
/** Returns the sum of all values produced by [selector]
function applied to each element in the collection.
*/
@SinceKotlin("1.5")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfUInt")
@WasExperimental(ExperimentalUnsignedType
s::class)
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.sumOf(selector: (T) -> UInt): UInt {
 var sum: UInt = 0.toUInt()
 for (element in this)
 sum +=
selector(element)
 return
sum
}
/** Returns the sum of all values produced by [selector] function applied to each element in the
collection.
*/
@SinceKotlin("1.5")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolution
ByLambdaReturnType
@kotlin.jvm.JvmName("sumOfULong")
@WasExperimental(ExperimentalUnsignedTy
pes::class)
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.sumOf(selector: (T) -> ULong): ULong
{
 var sum: ULong = 0.toULong()
 for (element in this)
 sum +=
selector(element)
 return
sum
}
/** Returns an original collection containing all the non-`null` elements, throwing an
[IllegalArgumentException] if there are any `null` elements.
*/
public fun <T : Any>
Iterable<T?>.requireNoNulls(): Iterable<T> {
 for (element in this)
 if (element == null)
 throw
IllegalArgumentException("null element found in $this.")
 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?>.requireNoNulls(): List<T> {
 for (element in this)
 if (element ==
null)
 throw IllegalArgumentException("null element found in $this.")
 return this as List<T>
}
/** Splits this collection into a list of
lists each not exceeding the given [size].
*/
public fun <T> List<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.
*/
public fun <T, R> List<T>.chunked(size: Int, transform: (List<T>) -> R): List<R> {
 return windowed(size, size, partialWindows = true).map(transform)
}
/** Note that the
list passed to the [transform] function is ephemeral and is valid only inside that function.
*/
You should not store it
or allow it to escape in some way, unless you made a snapshot of it.
*/
The last list may have fewer elements than
the given [size].
*/
@param size the number of elements to take in each list, must be positive and can be
greater than the number of elements in this collection.
*/
@param sample samples.text.Strings.chunkedTransform

```

```

* Since Kotlin 1.2
public fun <T, R> Iterable<T>.chunked(size: Int, transform: (List<T>) -> R): List<R>
{
 return windowed(size, size, partialWindows = true, transform = transform)
}
* Returns a list containing all elements of the original collection without the first occurrence of the given [element].

public operator fun <T> Iterable<T>.minus(element: T): List<T> {
 val result = ArrayList<T>(collectionSizeOrDefault(10))
 var removed = false
 return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true }
}
* Returns a list containing all elements of the original collection except the elements contained in the given [elements] array.
* Before Kotlin 1.6, the [elements] array may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have
* a correct and stable implementation of `hashCode()` that didn't change between successive invocations.
* On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.

public operator fun <T> Iterable<T>.minus(elements: Array<out T>): List<T> {
 if (elements.isEmpty()) return this.toList()
 val other = elements.convertToSetForSetOperation()
 return this.filterNot { it in other }
}
* Returns a list containing all elements of the original collection except the elements contained in the given [elements] collection.
* Before Kotlin 1.6, the [elements] collection may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have
* a correct and stable implementation of `hashCode()` that didn't change between successive invocations.
* On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.

public operator fun <T> Iterable<T>.minus(elements: Iterable<T>): List<T> {
 val other = elements.convertToSetForSetOperationWith(this)
 if (other.isEmpty()) return this.toList()
 return this.filterNot { it in other }
}
* Returns a list containing all elements of the original collection except the elements contained in the given [elements] sequence.
* Before Kotlin 1.6, the [elements] sequence may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have
* a correct and stable implementation of `hashCode()` that didn't change between successive invocations.
* On JVM, you can enable this behavior back with the system property `kotlin.collections.convert_arg_to_set_in_removeAll` set to `true`.

public operator fun <T> Iterable<T>.minus(elements: Sequence<T>): List<T> {
 val other = elements.convertToSetForSetOperation()
 if (other.isEmpty()) return this.toList()
 return this.filterNot { it in other }
}
* Returns a list containing all elements of the original collection without the first occurrence of the given [element].

@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.minusElement(element: T): List<T> {
 return minus(element)
}
* Splits the original collection into pair of lists,
* where *first* list contains elements for which [predicate] yielded `true`,
* while *second* list contains elements for which [predicate] yielded `false`.

@sample
samples.collections.Iterables.Operations.partition
public inline fun <T> Iterable<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {
 val first = ArrayList<T>()
 val second = ArrayList<T>()
 for (element in this) {
 if (predicate(element)) {
 first.add(element)
 } else {
 second.add(element)
 }
 }
 return Pair(first, second)
}
* Returns a list containing all elements of the original collection and then the given [element].

public operator fun <T> Iterable<T>.plus(element: T): List<T> {
 if (this is Collection) return this.plus(element)
 val result = ArrayList<T>()
 result.addAll(this)
 result.add(element)
 return result
}
* Returns a list containing all elements of the original collection and then the given [element].

public operator fun <T> Collection<T>.plus(element: T): List<T> {
 val result = ArrayList<T>(size + 1)
 result.addAll(this)
 result.add(element)
 return result
}
* Returns a list containing all elements of the original collection and then all elements of the given [elements] array.

public operator fun <T> Iterable<T>.plus(elements: Array<out T>): List<T> {
 if (this is Collection) return this.plus(elements)
 val result = ArrayList<T>()
 result.addAll(this)
 result.addAll(elements)
 return result
}
* Returns a list containing all elements of the original collection and then all elements of the given [elements] array.

public operator fun <T> Collection<T>.plus(elements: Array<out T>): List<T> {
 val result = ArrayList<T>(this.size + elements.size)
 result.addAll(this)
 result.addAll(elements)
 return result
}
* Returns a list containing all elements

```

of the original collection and then all elements of the given [elements] collection.

```

public operator fun <T>
Iterable<T>.plus(elements: Iterable<T>): List<T> {
 if (this is Collection) return this.plus(elements)
 val result = ArrayList<T>()
 result.addAll(this)
 result.addAll(elements)
 return result
}

```

\* Returns a list containing all elements of the original collection and then all elements of the given [elements] collection.

```

public operator fun <T> Collection<T>.plus(elements: Iterable<T>): List<T> {
 if (elements is Collection) {
 val result = ArrayList<T>(this.size + elements.size)
 result.addAll(this)
 result.addAll(elements)
 return result
 } else {
 val result = ArrayList<T>(this)
 result.addAll(elements)
 return result
 }
}

```

\* Returns a list containing all elements of the original collection and then all elements of the given [elements] sequence.

```

public operator fun <T>
Iterable<T>.plus(elements: Sequence<T>): List<T> {
 val result = ArrayList<T>()
 result.addAll(this)
 result.addAll(elements)
 return result
}

```

\* Returns a list containing all elements of the original collection and then all elements of the given [elements] sequence.

```

public operator fun <T>
Collection<T>.plus(elements: Sequence<T>): List<T> {
 val result = ArrayList<T>(this.size + 10)
 result.addAll(this)
 result.addAll(elements)
 return result
}

```

\* Returns a list containing all elements of the original collection and then the given [element].

```

@kotlin.internal.InlineOnly
public inline fun <T>
Iterable<T>.plusElement(element: T): List<T> {
 return plus(element)
}

```

\* Returns a list containing all elements of the original collection and then the given [element].

```

@kotlin.internal.InlineOnly
public inline fun <T>
Collection<T>.plusElement(element: T): List<T> {
 return plus(element)
}

```

\* Returns a list of snapshots of the window of the given [size] sliding along this collection with the given [step], where each snapshot is a list. Several last lists may have fewer elements than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this collection.

@param size the number of elements to take in each window

@param step the number of elements to move the window forward by on 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 <T>
Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<List<T>> {
 checkWindowSizeStep(size, step)
 if (this is RandomAccess && this is List) {
 val thisSize = this.size
 val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1
 val result = ArrayList<List<T>>(resultCapacity)
 var index = 0
 while (index in 0 until thisSize) {
 val windowSize = size.coerceAtMost(thisSize - index)
 if (windowSize < size && !partialWindows) break
 result.add(List(windowSize) { this[it + index] })
 index += step
 }
 return result
 }
 val result = ArrayList<List<T>>()
 windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = false).forEach {
 result.add(it)
 }
 return result
}

```

\* Returns a list of results of applying the given [transform] function to an each list representing a view over the window of the given [size] sliding along this collection with the given [step]. Note that the list passed to the [transform] function is ephemeral and is valid only inside that function. You should not store it or allow it to escape in some way, unless you made a snapshot of it. Several last lists may have fewer elements than the given [size]. Both [size] and [step] must be positive and can be greater than the number of elements in this collection.

@param size the number of elements to take in each window

@param step the number of elements to move the window forward by on an each step, by default 1

@param partialWindows controls whether or not to keep partial windows in the end if any, by default `false` which means partial windows won't be preserved

@sample

```

samples.collections.Sequences.Transformations.averageWindows

```

@SinceKotlin("1.2")

```

public fun <T, R>
Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R): List<R> {
 checkWindowSizeStep(size, step)
 if (this is RandomAccess && this is List) {
 val thisSize = this.size
 val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1
 val result = ArrayList<R>(resultCapacity)
 val window = MovingSubList(this)
 var index = 0
 while (index in 0 until thisSize) {
 val windowSize = size.coerceAtMost(thisSize - index)
 if (!partialWindows && windowSize < size) break
 window.move(index, index + windowSize)
 }
 }
}

```

```

result.add(transform(window))\n index += step\n }\n return result\n }\n val result =
ArrayList<R>()\n windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = true).forEach { \n
result.add(transform(it))\n }\n return result\n}\n\n/**\n * Returns a list of pairs built from the elements of `this`
collection and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n
* @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Iterable<T>.zip(other:
Array<out R>): List<Pair<T, R>> { \n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values
built from the elements of `this` collection and the [other] array with the same index\n * using the provided
[transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n *
\n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V>
Iterable<T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> { \n val arraySize = other.size\n val
list = ArrayList<V>(minOf(collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in this) { \n if
(i >= arraySize) break\n list.add(transform(element, other[i++]))\n }\n return list\n}\n\n/**\n * Returns a list
of pairs built from the elements of `this` collection and [other] collection with the same index.\n * The returned list
has length of the shortest collection.\n * \n
* @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Iterable<T>.zip(other: Iterable<R>): List<Pair<T, R>> { \n return zip(other) { t1, t2 ->
t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` collection and the [other] collection
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest collection.\n * \n
* @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V>
Iterable<T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> { \n val first = iterator()\n val second
= other.iterator()\n val list = ArrayList<V>(minOf(collectionSizeOrDefault(10),
other.collectionSizeOrDefault(10)))\n while (first.hasNext() && second.hasNext()) { \n
list.add(transform(first.next(), second.next()))\n }\n return list\n}\n\n/**\n * Returns a list of pairs of each two
adjacent elements in this collection.\n * \n
* The returned list is empty if this collection contains less than two
elements.\n * \n
* @sample samples.collections.Collections.Transformations.zipWithNext\n
*/\n@SinceKotlin("1.2")\npublic fun <T> Iterable<T>.zipWithNext(): List<Pair<T, T>> { \n return zipWithNext
{ a, b -> a to b }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to
an each pair of two adjacent elements in this collection.\n * \n
* The returned list is empty if this collection contains
less than two elements.\n * \n
* @sample
samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n */\n@SinceKotlin("1.2")\npublic
inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> { \n val iterator = iterator()\n if
(!iterator.hasNext()) return emptyList()\n val result = mutableListOf<R>()\n var current = iterator.next()\n
while (iterator.hasNext()) { \n val next = iterator.next()\n result.add(transform(current, next))\n current
= next\n }\n return result\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and
using the given [prefix] and [postfix] if supplied.\n * \n
* If the collection could be huge, you can specify a non-
negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the
[truncated] string (which defaults to "...").\n * \n
* @sample
samples.collections.Collections.Transformations.joinTo\n */\npublic fun <T, A : Appendable>
Iterable<T>.joinTo(buffer: A, separator: CharSequence = "\n", prefix: CharSequence = "", postfix: CharSequence
= "", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A { \n
buffer.append(prefix)\n var count = 0\n for (element in this) { \n if (++count > 1) buffer.append(separator)\n
 if (limit < 0 || count <= limit) { \n buffer.appendElement(element, transform)\n } else break\n }\n if
(limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n *
Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if
supplied.\n * \n
* If the collection could be huge, you can specify a non-negative value of [limit], in which case only
the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to "...").\n *
\n
* @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun <T>
Iterable<T>.joinToString(separator: CharSequence = "\n", prefix: CharSequence = "", postfix: CharSequence =

```

```

 "\", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {
 return
 joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()
}

/** Returns this collection as an [Iterable]. */
@kotlin.internal.InlineOnly
public inline fun <T> Iterable<T>.asIterable():
 Iterable<T> {
 return this
}

/** Creates a [Sequence] instance that wraps the original collection returning
 its elements when being iterated. */
@sample
samples.collections.Sequences.Building.sequenceFromCollection
public fun <T> Iterable<T>.asSequence():
 Sequence<T> {
 return Sequence { this.iterator() }
}

/** Returns an average value of elements in the
 collection. */
@kotlin.jvm.JvmName("averageOfByte")
public fun Iterable<Byte>.average(): Double {
 var
 sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 checkCountOverflow(++count)
 }
 return if (count == 0) Double.NaN else sum / count
}

/** Returns
 an average value of elements in the collection. */
@kotlin.jvm.JvmName("averageOfShort")
public fun
 Iterable<Short>.average(): Double {
 var sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 checkCountOverflow(++count)
 }
 return if (count == 0) Double.NaN else sum /
 count
}

/** Returns an average value of elements in the collection. */
@kotlin.jvm.JvmName("averageOfInt")
public fun Iterable<Int>.average(): Double {
 var sum: Double =
 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 checkCountOverflow(++count)
 }
 return if (count == 0) Double.NaN else sum / count
}

/** Returns an average value of elements in the
 collection. */
@kotlin.jvm.JvmName("averageOfLong")
public fun Iterable<Long>.average(): Double {
 var sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 checkCountOverflow(++count)
 }
 return if (count == 0) Double.NaN else sum / count
}

/** Returns an average value of elements in the collection. */
@kotlin.jvm.JvmName("averageOfFloat")
public fun
 Iterable<Float>.average(): Double {
 var sum: Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 checkCountOverflow(++count)
 }
 return if (count == 0) Double.NaN else sum /
 count
}

/** Returns an average value of elements in the collection. */
@kotlin.jvm.JvmName("averageOfDouble")
public fun Iterable<Double>.average(): Double {
 var sum:
 Double = 0.0
 var count: Int = 0
 for (element in this) {
 sum += element
 checkCountOverflow(++count)
 }
 return if (count == 0) Double.NaN else sum / count
}

/** Returns
 the sum of all elements in the collection. */
@kotlin.jvm.JvmName("sumOfByte")
public fun
 Iterable<Byte>.sum(): Int {
 var sum: Int = 0
 for (element in this) {
 sum += element
 }
 return
 sum
}

/** Returns the sum of all elements in the collection. */
@kotlin.jvm.JvmName("sumOfShort")
public fun Iterable<Short>.sum(): Int {
 var sum: Int = 0
 for
 (element in this) {
 sum += element
 }
 return sum
}

/** Returns the sum of all elements in the
 collection. */
@kotlin.jvm.JvmName("sumOfInt")
public fun Iterable<Int>.sum(): Int {
 var sum: Int = 0
 for
 (element in this) {
 sum += element
 }
 return sum
}

/** Returns the sum of all elements in
 the collection. */
@kotlin.jvm.JvmName("sumOfLong")
public fun Iterable<Long>.sum(): Long {
 var
 sum: Long = 0L
 for (element in this) {
 sum += element
 }
 return sum
}

/** Returns the
 sum of all elements in the collection. */
@kotlin.jvm.JvmName("sumOfFloat")
public fun
 Iterable<Float>.sum(): Float {
 var sum: Float = 0.0f
 for (element in this) {
 sum += element
 }
 return sum
}

/** Returns the sum of all elements in the collection. */
@kotlin.jvm.JvmName("sumOfDouble")
public fun Iterable<Double>.sum(): Double {
 var sum: Double
 = 0.0
 for (element in this) {
 sum += element
 }
 return sum
}

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 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. */
@npackage kotlin.collections
nimport
 kotlin.comparisons.naturalOrder
nimport kotlin.random.Random

/** Returns the array if it's not `null`, or an
 empty array otherwise. */
@sample samples.collections.Arrays.Usage.arrayOrEmpty
public fun
 <T> Array<out T>?.orEmpty(): Array<out T> = this ?:
 emptyArray<T>()

/** Returns a *typed* array containing all of the elements of this collection. */
/** Allocates an array of runtime type `T` having its size equal to the size of this collection and populates the array

```

```

with the elements of this collection.\n * @sample
samples.collections.Collections.Collections.collectionToTypedArray\n *^\n@kotlin.internal.InlineOnly\npublic
actual inline fun <T> Collection<T>.toTypedArray(): Array<T> =
copyToArray(this)\n\n@JsName("copyToArray")\n\n@PublishedApi\n\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")\n\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")\n\ninternal actual fun <T> copyToArrayImpl(collection:
Collection<*>, array: Array<T>): Array<T> {\n if (array.size < collection.size)\n return
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 array[index] = null.unsafeCast<T>()\n }\n return array\n}\n\n\n/**\n * Returns an immutable list
containing only the specified object [element].\n *^\npublic fun <T> listOf(element: T): List<T> =
arrayListOf(element)\n\n@PublishedApi\n\n@SinceKotlin("1.3")\n\n@kotlin.internal.InlineOnly\n\ninternal actual
inline fun <E> buildListInternal(builderAction: MutableList<E>().->Unit): List<E> {\n return
ArrayList<E>().apply(builderAction).build()\n}\n\n@PublishedApi\n\n@SinceKotlin("1.3")\n\n@kotlin.internal.Inlin
eOnly\n\ninternal actual inline fun <E> buildListInternal(capacity: Int, builderAction: MutableList<E>().->Unit):
List<E> {\n checkBuilderCapacity(capacity)\n return
ArrayList<E>(capacity).apply(builderAction).build()\n}\n\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@PublishedApi\n\n@SinceKotlin("1.3")\n\n@kotlin.internal.InlineOnly\n\ninternal actual inline
fun <E> buildSetInternal(builderAction: MutableSet<E>().->Unit): Set<E> {\n return
LinkedHashSet<E>().apply(builderAction).build()\n}\n\n@PublishedApi\n\n@SinceKotlin("1.3")\n\n@kotlin.internal.
InlineOnly\n\ninternal actual inline fun <E> buildSetInternal(capacity: Int, builderAction: MutableSet<E>().->Unit):
Set<E> {\n return LinkedHashSet<E>(capacity).apply(builderAction).build()\n}\n\n\n/**\n * Returns an
immutable map, mapping only the specified key to the\n * specified value.\n *^\npublic fun <K, V> mapOf(pair:
Pair<K, V>): Map<K, V> =
hashMapOf(pair)\n\n@PublishedApi\n\n@SinceKotlin("1.3")\n\n@kotlin.internal.InlineOnly\n\ninternal actual inline
fun <K, V> buildMapInternal(builderAction: MutableMap<K, V>().->Unit): Map<K, V> {\n return
LinkedHashMap<K,
V>().apply(builderAction).build()\n}\n\n@PublishedApi\n\n@SinceKotlin("1.3")\n\n@kotlin.internal.InlineOnly\n\ninte
rnal actual inline fun <K, V> buildMapInternal(capacity: Int, builderAction: MutableMap<K, V>().->Unit):
Map<K, V> {\n return LinkedHashMap<K, V>(capacity).apply(builderAction).build()\n}\n\n\n/**\n * Fills the
list with the provided [value].\n *^\n * Each element in the list gets replaced with the [value].\n
*\n\n@SinceKotlin("1.2")\n\npublic actual fun <T> MutableList<T>.fill(value: T): Unit {\n for (index in
0..lastIndex) {\n this[index] = value\n }\n}\n\n\n/**\n * Randomly shuffles elements in this list.\n *^\n * See:
https://en.wikipedia.org/wiki/Fisher%20%80%93Yates_shuffle#The_modern_algorithm\n
*\n\n@SinceKotlin("1.2")\n\npublic actual fun <T> MutableList<T>.shuffle(): Unit = shuffle(Random)\n\n\n/**\n * Returns a new list with the elements of this list randomly shuffled.\n *^\n@SinceKotlin("1.2")\n\npublic actual fun
<T> Iterable<T>.shuffled(): List<T> = toMutableList().apply { shuffle() }\n\n\n/**\n * Sorts elements in the list in-
place 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 * @sample samples.collections.Collections.Sorting.sortMutableList\n
*\n\npublic actual fun <T : Comparable<T>> MutableList<T>.sort(): Unit {\n collectionsSort(this,
naturalOrder())\n}\n\n\n/**\n * Sorts elements in the list in-place according to the order specified with [comparator].\n
*\n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *^\n
* @sample samples.collections.Collections.Sorting.sortMutableListWith\n *^\npublic actual fun <T>

```

```

MutableList<T>.sortWith(comparator: Comparator<in T>): Unit {\n collectionsSort(this,
comparator)\n}\n\nprivate fun <T> collectionsSort(list: MutableList<T>, 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 actual fun <T> arrayOfNulls(reference: Array<T>, size: Int):
Array<T> {\n return
arrayOfNulls<Any>(size).unsafeCast<Array<T>>()\n}\n\n@SinceKotlin("1.3")\n@PublishedApi\n@JsName("arr
ayCopy")\ninternal fun <T> arrayCopy(source: Array<out T>, destination: Array<in T>, destinationOffset: Int,
startIndex: Int, endIndex: Int) {\n AbstractList.checkRangeIndexes(startIndex, endIndex, source.size)\n val
rangeSize = endIndex - startIndex\n AbstractList.checkRangeIndexes(destinationOffset, destinationOffset +
rangeSize, destination.size)\n if (js("ArrayBuffer").isView(destination) &&
js("ArrayBuffer").isView(source)) {\n val subrange = source.asDynamic().subarray(startIndex, endIndex)\n
destination.asDynamic().set(subrange, destinationOffset)\n } else {\n if (source !== destination ||
destinationOffset <= startIndex) {\n for (index in 0 until rangeSize) {\n
destination[destinationOffset + index] = source[startIndex + index]\n }\n } else {\n for (index in
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
is\n@Suppress("NOTHING_TO_INLINE")\ninternal actual inline fun <K, V> Map<K,
V>.toSingletonMapOrSelf(): Map<K, V> = this\n\n@Suppress("NOTHING_TO_INLINE")\ninternal actual inline
fun <K, V> Map<out K, V>.toSingletonMap(): Map<K, V> =
this.toMutableMap()\n\n@Suppress("NOTHING_TO_INLINE")\ninternal actual inline fun <T> Array<out
T>.copyToArrayOfAny(isVarargs: Boolean): Array<out Any?> =\n if (isVarargs)\n // no need to copy vararg
array in JS\n this\n else\n this.copyOf()\n\n@PublishedApi\ninternal actual fun
checkIndexOverflow(index: Int): Int {\n if (index < 0) {\n throwIndexOverflow()\n }\n return
index\n}\n\n@PublishedApi\ninternal actual fun 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\n * internal actual fun mapCapacity(expectedSize: Int) =
expectedSize\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 * @PublishedApi\n * internal fun
checkBuilderCapacity(capacity: Int) {\n require(capacity >= 0) { "capacity must be non-negative."
}\n}\n\ninternal actual fun brittleContainsOptimizationEnabled(): Boolean = false", "/*\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.JvmMultifileClass\n * @file:kotlin.jvm.JvmName("CollectionsKt")\n * \n * package
kotlin.collections\n * \n * Returns the given iterator itself. This allows to use an instance of iterator in a `for`
loop.\n * \n * @sample samples.collections.Iterators.iterator\n * \n * @kotlin.internal.InlineOnly\n * public inline operator
fun <T> Iterator<T>.iterator(): Iterator<T> = this\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
* \n * @sample samples.collections.Iterators.withIndexIterator\n * \n * public fun <T> Iterator<T>.withIndex():
Iterator<IndexedValue<T>> = IndexingIterator(this)\n * \n * Performs the given [operation] on each element of
this [Iterator].\n * \n * @sample samples.collections.Iterators.forEachIterator\n * \n * public 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 * \n * internal 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 2010-2021 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
*\n * @file:kotlin.jvm.JvmMultifileClass\n * @file:kotlin.jvm.JvmName("ComparisonsKt")\n * \n * package

```

kotlin.comparisons\n\n/\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n\n// See: [\n\nimport kotlin.random.\\*\n\n\n/\\*\\*\n\n \\* Returns the greater of two values.\n\n \\* \n\n \\* If values are equal, returns the first one.\n\n \\*/\n\n@SinceKotlin\("1.1"\)\n\npublic expect fun <T : Comparable<T>> maxOf\(a: T, b: T\): T\n\n\n/\\*\\*\n\n \\* Returns the greater of two values.\n\n \\*/\n\n@SinceKotlin\("1.1"\)\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf\(a: Byte, b: Byte\): Byte\n\n\n/\\*\\*\n\n \\* Returns the greater of two values.\n\n \\*/\n\n@SinceKotlin\("1.1"\)\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf\(a: Short, b: Short\): Short\n\n\n/\\*\\*\n\n \\* Returns the greater of two values.\n\n \\*/\n\n@SinceKotlin\("1.1"\)\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf\(a: Int, b: Int\): Int\n\n\n/\\*\\*\n\n \\* Returns the greater of two values.\n\n \\*/\n\n@SinceKotlin\("1.1"\)\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf\(a: Long, b: Long\): Long\n\n\n/\\*\\*\n\n \\* Returns the greater of two values.\n\n \\* \n\n \\* If either value is `NaN`, returns `NaN`.\n\n \\*/\n\n@SinceKotlin\("1.1"\)\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf\(a: Float, b: Float\): Float\n\n\n/\\*\\*\n\n \\* Returns the greater of two values.\n\n \\* \n\n \\* If either value is `NaN`, returns `NaN`.\n\n \\*/\n\n@SinceKotlin\("1.1"\)\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf\(a: Double, b: Double\): Double\n\n\n/\\*\\*\n\n \\* Returns the greater of three values.\n\n \\* \n\n \\* If there are multiple equal maximal values, returns the first of them.\n\n \\*/\n\n@SinceKotlin\("1.1"\)\n\npublic expect fun <T : Comparable<T>> maxOf\(a: T, b: T, c: T\): T\n\n\n/\\*\\*\n\n \\* Returns the greater of three values.\n\n \\*/\n\n@SinceKotlin\("1.1"\)\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf\(a: Byte, b: Byte, c: Byte\): Byte\n\n\n/\\*\\*\n\n \\* Returns the greater of three values.\n\n \\*/\n\n@SinceKotlin\("1.1"\)\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf\(a: Short, b: Short, c: Short\): Short\n\n\n/\\*\\*\n\n \\* Returns the greater of three values.\n\n \\*/\n\n@SinceKotlin\("1.1"\)\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf\(a: Int, b: Int, c: Int\): Int\n\n\n/\\*\\*\n\n \\* Returns the greater of three values.\n\n \\*/\n\n@SinceKotlin\("1.1"\)\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf\(a: Long, b: Long, c: Long\): Long\n\n\n/\\*\\*\n\n \\* Returns the greater of three values.\n\n \\* \n\n \\* If any value is `NaN`, returns `NaN`.\n\n \\*/\n\n@SinceKotlin\("1.1"\)\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf\(a: Float, b: Float, c: Float\): Float\n\n\n/\\*\\*\n\n \\* Returns the greater of three values.\n\n \\* \n\n \\* If any value is `NaN`, returns `NaN`.\n\n \\*/\n\n@SinceKotlin\("1.1"\)\n\n@kotlin.internal.InlineOnly\n\npublic expect inline fun maxOf\(a: Double, b: Double, c: Double\): Double\n\n\n/\\*\\*\n\n \\* Returns the greater of three values according to the order specified by the given \[comparator\].\n\n \\* \n\n \\* If there are multiple equal maximal values, returns the first of them.\n\n \\*/\n\n@SinceKotlin\("1.1"\)\n\npublic fun <T> maxOf\(a: T, b: T, c: T, comparator: Comparator<in T>\): T {\n\n return maxOf\(a, maxOf\(b, c, comparator\), comparator\)\n\n}\n\n\n/\\*\\*\n\n \\* Returns the greater of two values according to the order specified by the given \[comparator\].\n\n \\* \n\n \\* If values are equal, returns the first one.\n\n \\*/\n\n@SinceKotlin\("1.1"\)\n\npublic fun <T> maxOf\(a: T, b: T, comparator: Comparator<in T>\): T {\n\n return if \(comparator.compare\(a, b\) >= 0\) a else b\n\n}\n\n\n/\\*\\*\n\n \\* Returns the greater of the given values.\n\n \\* \n\n \\* If there are multiple equal maximal values, returns the first of them.\n\n \\*/\n\n@SinceKotlin\("1.4"\)\n\npublic expect fun <T : Comparable<T>> maxOf\(a: T, vararg other: T\): T\n\n\n/\\*\\*\n\n \\* Returns the greater of the given values.\n\n \\*/\n\n@SinceKotlin\("1.4"\)\n\npublic expect fun maxOf\(a: Byte, vararg other: Byte\): Byte\n\n\n/\\*\\*\n\n \\* Returns the greater of the given values.\n\n \\*/\n\n@SinceKotlin\("1.4"\)\n\npublic expect fun maxOf\(a: Short, vararg other: Short\): Short\n\n\n/\\*\\*\n\n \\* Returns the greater of the given values.\n\n \\*/\n\n@SinceKotlin\("1.4"\)\n\npublic expect fun maxOf\(a: Int, vararg other: Int\): Int\n\n\n/\\*\\*\n\n \\* Returns the greater of the given values.\n\n \\*/\n\n@SinceKotlin\("1.4"\)\n\npublic expect fun maxOf\(a: Long, vararg other: Long\): Long\n\n\n/\\*\\*\n\n \\* Returns the greater of the given values.\n\n \\* \n\n \\* If any value is `NaN`, returns `NaN`.\n\n \\*/\n\n@SinceKotlin\("1.4"\)\n\npublic expect fun maxOf\(a: Float, vararg other: Float\): Float\n\n\n/\\*\\*\n\n \\* Returns the greater of the given values.\n\n \\* \n\n \\* If any value is `NaN`, returns `NaN`.\n\n \\*/\n\n@SinceKotlin\("1.4"\)\n\npublic expect fun maxOf\(a: Double, vararg other: Double\): Double\n\n\n/\\*\\*\n\n \\* Returns the greater of the given values according to the order specified by the given \[comparator\].\n\n \\* \n\n \\* If there are multiple equal maximal values, returns the first of them.\n\n \\*/\n\n@SinceKotlin\("1.4"\)\n\npublic fun <T> maxOf\(a: T, vararg other: T, comparator: Comparator<in T>\): T {\n\n var max = a\n\n for \(e in other\) if \(comparator.compare\(max, e\) < 0\) max = e\n\n return max\n\n}\n\n\n/\\*\\*\n\n \\* Returns the smaller of two values.\n\n \\* \n\n \\* If values are equal, returns the first one.\n\n \\*/\n\n@SinceKotlin\("1.1"\)\n\npublic expect fun <T : Comparable<T>> minOf\(a: T, b: T\): T\n\n\n/\\*\\*\n\n \\* Returns the smaller of two values.\n\n \\*/](https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\n)

```

*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun minOf(a: Byte, b: Byte):
Byte^/^/^ * Returns the smaller of two values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun minOf(a: Short, b: Short):
Short^/^/^ * Returns the smaller of two values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun minOf(a: Int, b: Int): Int^/^/^
* Returns the smaller of two values.^ *^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline
fun minOf(a: Long, b: Long): Long^/^/^ * Returns the smaller of two values.^ * ^ * If either value is `NaN`,
returns `NaN`.^ *^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun minOf(a: Float,
b: Float): Float^/^/^ * Returns the smaller of two values.^ * ^ * If either value is `NaN`, returns `NaN`.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun minOf(a: Double, b: Double):
Double^/^/^ * Returns the smaller of three values.^ * ^ * If there are multiple equal minimal values, returns the
first of them.^ *^@SinceKotlin("1.1")^public expect fun <T> Comparable<T>> minOf(a: T, b: T, c: T):
T^/^/^ * Returns the smaller of three values.^ *^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public
expect inline fun minOf(a: Byte, b: Byte, c: Byte): Byte^/^/^ * Returns the smaller of three values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun minOf(a: Short, b: Short, c:
Short): Short^/^/^ * Returns the smaller of three values.^
*^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun minOf(a: Int, b: Int, c: Int):
Int^/^/^ * Returns the smaller of three values.^ *^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public
expect inline fun minOf(a: Long, b: Long, c: Long): Long^/^/^ * Returns the smaller of three values.^ * ^ * If
any value is `NaN`, returns `NaN`.^ *^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline
fun minOf(a: Float, b: Float, c: Float): Float^/^/^ * Returns the smaller of three values.^ * ^ * If any value is
`NaN`, returns `NaN`.^ *^@SinceKotlin("1.1")^@kotlin.internal.InlineOnly^public expect inline fun minOf(a:
Double, b: Double, c: Double): Double^/^/^ * Returns the smaller of three values according to the order
specified by the given [comparator].^ * ^ * If there are multiple equal minimal values, returns the first of them.^
*^@SinceKotlin("1.1")^public fun <T> minOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {^ return
minOf(a, minOf(b, c, comparator), comparator)^/^/^ * Returns the smaller of two values according to the
order specified by the given [comparator].^ * ^ * If values are equal, returns the first one.^
*^@SinceKotlin("1.1")^public fun <T> minOf(a: T, b: T, comparator: Comparator<in T>): T {^ return if
(comparator.compare(a, b) <= 0) a else b^/^/^ * Returns the smaller of the given values.^ * ^ * If there are
multiple equal minimal values, returns the first of them.^ *^@SinceKotlin("1.4")^public expect fun <T>
Comparable<T>> minOf(a: T, vararg other: T): T^/^/^ * Returns the smaller of the given values.^
*^@SinceKotlin("1.4")^public expect fun minOf(a: Byte, vararg other: Byte): Byte^/^/^ * Returns the
smaller of the given values.^ *^@SinceKotlin("1.4")^public expect fun minOf(a: Short, vararg other: Short):
Short^/^/^ * Returns the smaller of the given values.^ *^@SinceKotlin("1.4")^public expect fun minOf(a:
Int, vararg other: Int): Int^/^/^ * Returns the smaller of the given values.^ *^@SinceKotlin("1.4")^public
expect fun minOf(a: Long, vararg other: Long): Long^/^/^ * Returns the smaller of the given values.^ * ^ * If
any value is `NaN`, returns `NaN`.^ *^@SinceKotlin("1.4")^public expect fun minOf(a: Float, vararg other:
Float): Float^/^/^ * Returns the smaller of the given values.^ * ^ * If any value is `NaN`, returns `NaN`.^
*^@SinceKotlin("1.4")^public expect fun minOf(a: Double, vararg other: Double): Double^/^/^ * Returns
the smaller of the given values according to the order specified by the given [comparator].^ * ^ * If there are
multiple equal minimal values, returns the first of them.^ *^@SinceKotlin("1.4")^public fun <T> minOf(a: T,
vararg other: T, comparator: Comparator<in T>): T {^ var min = a^ for (e in other) if
(comparator.compare(min, e) > 0) min = e^ return min^/^/^ * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.^ * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.^
*^@file:kotlin.jvm.JvmMultifileClass^@file:kotlin.jvm.JvmName("MapsKt")^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\nimport kotlin.ranges.reversed\n\n/**\n * Returns the first non-null value produced by
[transform] function being applied to entries of this map in iteration order,\n * or throws
[NoSuchElementException] if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Any> Map<out K,
V>.firstNotNullOf(transform: (Map.Entry<K, V>) -> R?): R {\n return firstNotNullOfOrNull(transform) ?: throw
NoSuchElementException("No element of the map was transformed to a non-null value.")\n}\n\n/**\n * Returns
the first non-null value produced by [transform] function being applied to entries of this map in iteration order,\n *
or `null` if no non-null value was produced.\n * \n * @sample
samples.collections.Collections.Transformations.firstNotNullOf\n
*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Any> Map<out K,
V>.firstNotNullOfOrNull(transform: (Map.Entry<K, V>) -> R?): R? {\n for (element in this) {\n val result =
transform(element)\n if (result != null) {\n return result\n }\n }\n return null\n}\n\n/**\n *
Returns a [List] containing all key-value pairs.\n *\npublic fun <K, V> Map<out K, V>.toList(): List<Pair<K, V>>
{\n if (size == 0)\n return emptyList()\n val iterator = entries.iterator()\n if (!iterator.hasNext())\n return emptyList()\n val first = iterator.next()\n if (!iterator.hasNext())\n return listOf(first.toPair())\n val
result = ArrayList<Pair<K, V>>(size)\n result.add(first.toPair())\n do {\n result.add(iterator.next().toPair())\n } while (iterator.hasNext())\n return result\n}\n\n/**\n * 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.Maps.Transformations.flatMap\n *\npublic inline fun <K, V, R> Map<out K,
V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each entry of original map.\n * \n * @sample samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequence")\npublic inline fun <K, V, R> Map<out K,
V>.flatMap(transform: (Map.Entry<K, V>) -> Sequence<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
entry of original map, to the given [destination].\n *\npublic inline fun <K, V, R, C : MutableCollection<in R>>
Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Iterable<R>): C {\n for (element in
this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n *
Appends all elements yielded from results of [transform] function being invoked on each entry of original map, to
the given [destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapSequenceTo")\npublic inline fun <K, V, R, C :
MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) ->
Sequence<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n
 }\n return destination\n}\n\n/**\n * Returns a list containing the results of applying the given [transform]
function\n * to each entry in the original map.\n * \n * @sample
samples.collections.Maps.Transformations.mapToList\n *\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 * \n * @sample
samples.collections.Maps.Transformations.mapNotNull\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

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[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@Deprecated("Use
maxByOrNull instead.")\n ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince =
"1.4", errorSince = "1.5", hiddenSince = "1.6")\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
maxByOrNull(selector)\n}\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.maxByOrNull\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out
K, V>.maxByOrNull(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n return
entries.maxByOrNull(selector)\n}\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each entry in the map.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOf(selector:
(Map.Entry<K, V>) -> Double): Double {\n return entries.maxOf(selector)\n}\n}\n\n/**\n * Returns the largest value
among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException
if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxOf(selector:
(Map.Entry<K, V>) -> Float): Float {\n return entries.maxOf(selector)\n}\n}\n\n/**\n * Returns the largest value
among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * @throws
NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.maxOf(selector: (Map.Entry<K, V>) -> R): R {\n return entries.maxOf(selector)\n}\n}\n\n/**\n * Returns the
largest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if there
are no entries.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {\n return
entries.maxOfOrNull(selector)\n}\n}\n\n/**\n * Returns the largest value among all values produced by [selector]

```

function\n \* applied to each entry in the map or `null` if there are no entries.\n \* \n \* If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {\n return
entries.maxOfOrNull(selector)\n}\n\n/**\n * Returns the largest value among all values produced by [selector]
function\n * applied to each entry in the map or `null` if there are no entries.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.maxOfOrNull(selector: (Map.Entry<K, V>) -> R): R? {\n return entries.maxOfOrNull(selector)\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,
V>.maxOfWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R {\n return
entries.maxOfWith(comparator, selector)\n}\n\n/**\n * Returns the largest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each entry in the map or `null` if there
are no entries.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,
V>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R? {\n return
entries.maxOfWithOrNull(comparator, selector)\n}\n\n@Deprecated("Use maxWithOrNull instead.")
ReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\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
maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first entry having the largest value according to the provided
[comparator] or `null` if there are no entries.\n * \n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic
inline fun <K, V> Map<out K, V>.maxWithOrNull(comparator: Comparator<in Map.Entry<K, V>>):
Map.Entry<K, V>? {\n return entries.maxWithOrNull(comparator)\n}\n\n@Deprecated("Use minByOrNull
instead.")
ReplaceWith("this.minByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\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 minByOrNull(selector)\n}\n\n/**\n *
Returns the first entry yielding the smallest value of the given function or `null` if there are no entries.\n * \n *
@sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out
K, V>.minByOrNull(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n return
entries.minByOrNull(selector)\n}\n\n/**\n * Returns the smallest value among all values produced by [selector]
function\n * applied to each entry in the map.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned result is `NaN`.\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOf(selector:
(Map.Entry<K, V>) -> Double): Double {\n return entries.minOf(selector)\n}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each entry in the map.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException
if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.minOf(selector:
(Map.Entry<K, V>) -> Float): Float {\n return entries.minOf(selector)\n}\n\n/**\n * Returns the smallest value

```

among all values produced by [selector] function\n \* applied to each entry in the map.\n \* \n \* @throws NoSuchElementException if the map is empty.\n

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.minOf(selector: (Map.Entry<K, V>) -> R): R {\n return entries.minOf(selector)\n}\n\n**\n * Returns the
smallest value among all values produced by [selector] function\n * applied to each entry in the map or `null` if
there are no entries.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Double): Double? {\n return
entries.minOfOrNull(selector)\n}\n\n**\n * Returns the smallest value among all values produced by [selector]
function\n * applied to each entry in the map or `null` if there are no entries.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.minOfOrNull(selector: (Map.Entry<K, V>) -> Float): Float? {\n return
entries.minOfOrNull(selector)\n}\n\n**\n * Returns the smallest value among all values produced by [selector]
function\n * applied to each entry in the map or `null` if there are no entries.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K,
V>.minOfOrNull(selector: (Map.Entry<K, V>) -> R): R? {\n return entries.minOfOrNull(selector)\n}\n\n**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each entry in the map.\n * \n * @throws NoSuchElementException if the map is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,
V>.minOfWith(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R {\n return
entries.minOfWith(comparator, selector)\n}\n\n**\n * Returns the smallest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each entry in the map or `null` if there
are no entries.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R> Map<out K,
V>.minOfWithOrNull(comparator: Comparator<in R>, selector: (Map.Entry<K, V>) -> R): R? {\n return
entries.minOfWithOrNull(comparator, selector)\n}\n\n@Deprecated("Use minWithOrNull instead.",
ReplaceWith("this.minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun <K, V> Map<out K, V>.minWith(comparator: Comparator<in
Map.Entry<K, V>>): Map.Entry<K, V>? {\n return minWithOrNull(comparator)\n}\n\n**\n * Returns the first
entry having the smallest value according to the provided [comparator] or `null` if there are no entries.\n
*\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K,
V>.minWithOrNull(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n return
entries.minWithOrNull(comparator)\n}\n\n**\n * Returns `true` if the map has no entries.\n * \n * @sample
samples.collections.Collections.Aggregates.none\n *\npublic fun <K, V> Map<out K, V>.none(): Boolean {\n
return isEmpty()\n}\n\n**\n * Returns `true` if no entries match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n *\npublic inline fun <K, V> Map<out K,
V>.none(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n if (isEmpty()) return true\n for (element in
this) if (predicate(element)) return false\n return true\n}\n\n**\n * Performs the given [action] on each entry and
returns the map itself afterwards.\n *\n@SinceKotlin("1.1")\npublic inline fun <K, V, M : Map<out K, V>>
M.onEach(action: (Map.Entry<K, V>) -> Unit): M {\n return apply { for (element in this) action(element)
}\n}\n\n**\n * Performs the given [action] on each entry, providing sequential index with the entry,\n * and returns

```

the map itself afterwards.

```

 * @param [action] function that takes the index of an entry and the entry itself
 * and performs the action on the entry.
 *^@SinceKotlin("1.4")
public inline fun <K, V, M : Map<out K, V>>
M.onEachIndexed(action: (index: Int, Map.Entry<K, V>) -> Unit): M {
 return apply {
 entries.forEachIndexed(action)
 }
}
 * Creates an [Iterable] instance that wraps the original map returning
its entries when being iterated.
 *^@kotlin.internal.InlineOnly
public inline fun <K, V> Map<out K,
V>.asIterable(): Iterable<Map.Entry<K, V>> {
 return entries
}
 * Creates a [Sequence] instance that
wraps the original map returning its entries when being iterated.
 *^
public fun <K, V> Map<out K,
V>.asSequence(): Sequence<Map.Entry<K, V>> {
 return entries.asSequence()
}
"/
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2021 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.
 *^
package kotlin.text
 * NOTE:
THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt
// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
 * 10 mappings totally
internal fun
Char.titlecaseImpl(): String {
 val uppercase = uppercase()
 if (uppercase.length > 1) {
 return if (this ==
"\u0149") uppercase else uppercase[0] + uppercase.substring(1).lowercase()
 }
 return
titlecaseChar().toString()
}
"/
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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.text
 * Converts this character to lower case using Unicode
mapping rules of the invariant locale.
 *^@Deprecated("Use lowercaseChar() instead.",
ReplaceWith("lowercaseChar()"))
 *^@DeprecatedSinceKotlin(warningSince =
"1.5")
 *^@kotlin.internal.InlineOnly
public actual inline fun Char.toLowerCase(): Char =
lowercaseChar()
 * Converts this character to lower case using Unicode mapping rules of the invariant
locale.
 * This function performs one-to-one character mapping.
 * To support one-to-many character
mapping use the [lowercase] function.
 * If this character has no mapping equivalent, the character itself is
returned.
 * @sample samples.text.Chars.lowercase
 *^
 *^@SinceKotlin("1.5")
 *^@WasExperimental(ExperimentalStdlibApi::class)
 *^@kotlin.internal.InlineOnly
public
c actual inline fun Char.lowercaseChar(): Char = lowercase()[0]
 * Converts this character to lower case
using Unicode mapping rules of the invariant locale.
 * This function supports one-to-many character mapping,
thus the length of the returned string can be greater than one.
 * For example, "\u0130".lowercase() returns
"\u0069\u0307",
 * where "\u0130" is the LATIN CAPITAL LETTER I WITH DOT ABOVE character
("\u0130").
 * If this character has no lower case mapping, the result of `toString()` of this char is returned.
 * @sample samples.text.Chars.lowercase
 *^
 *^@SinceKotlin("1.5")
 *^@WasExperimental(ExperimentalStdlibApi::class)
 *^@kotlin.internal.InlineOnly
public
c actual inline fun Char.lowercase(): String = toString().asDynamic().toLowerCase().unsafeCast<String>()
 * Converts this character to upper case using Unicode mapping rules of the invariant locale.
 *^
 *^@Deprecated("Use uppercaseChar() instead.",
ReplaceWith("uppercaseChar()"))
 *^@DeprecatedSinceKotlin(warningSince =
"1.5")
 *^@kotlin.internal.InlineOnly
public actual inline fun Char.toUpperCase(): Char =
uppercaseChar()
 * Converts this character to upper case using Unicode mapping rules of the invariant
locale.
 * This function performs one-to-one character mapping.
 * To support one-to-many character
mapping use the [uppercase] function.
 * If this character has no mapping equivalent, the character itself is
returned.
 * @sample samples.text.Chars.uppercase
 *^
 *^@SinceKotlin("1.5")
 *^@WasExperimental(ExperimentalStdlibApi::class)
public actual fun
Char.uppercaseChar(): Char {
 val uppercase = uppercase()
 return if (uppercase.length > 1) this else
uppercase[0]
}
 * Converts this character to upper case using Unicode mapping rules of the invariant
locale.
 * This function supports one-to-many character mapping, thus the length of the returned string can be
greater than one.
 * For example, "\uFB00".uppercase() returns "\u0046\u0046",
 * where "\uFB00" is the
LATIN SMALL LIGATURE FF character ("\uFB00").
 * If this character has no upper case mapping, the result of
`toString()` of this char is returned.
 * @sample samples.text.Chars.uppercase

```

```

*^@SinceKotlin("1.5")^@WasExperimental(ExperimentalStdlibApi::class)^@kotlin.internal.InlineOnly^npubli
c actual inline fun Char.toUpperCase(): String = toString().asDynamic().toUpperCase().unsafeCast<String>()\n/**\n
* Converts this character to title case using Unicode mapping rules of the invariant locale.\n * This function
performs one-to-one character mapping.\n * To support one-to-many character mapping use the [titlecase]
function.\n * If this character has no mapping equivalent, the result of calling [uppercaseChar] is returned.\n *
@sample samples.text.Chars.titlecase\n ^@SinceKotlin("1.5")^npublic actual fun Char.titlecaseChar(): Char =
titlecaseCharImpl()\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 * 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 * Returns the Unicode general
category of this character.\n */^@SinceKotlin("1.5")^npublic actual val Char.category: CharCategory\n get() =
CharCategory.valueOf(getCategoryValue())\n/**\n * Returns `true` if this character (Unicode code point) is
defined in Unicode.\n * A character is considered to be defined in Unicode if its [category] is not
[CharCategory.UNASSIGNED].\n */^@SinceKotlin("1.5")^npublic actual fun Char.isDefined(): Boolean {\n if
(this < "\u0080") {\n return true\n }\n return getCategoryValue() !=
CharCategory.UNASSIGNED.value\n}\n/**\n * Returns `true` if this character is a letter.\n * A character is
considered to be a letter if its [category] is [CharCategory.UPPERCASE_LETTER],\n *
[CharCategory.LOWERCASE_LETTER], [CharCategory.TITLECASE_LETTER],
[CharCategory.MODIFIER_LETTER], or [CharCategory.OTHER_LETTER].\n * @sample
samples.text.Chars.isLetter\n */^@SinceKotlin("1.5")^npublic actual fun Char.isLetter(): Boolean {\n if (this in
'a..'z' || this in 'A..'Z') {\n return true\n }\n if (this < "\u0080") {\n return false\n }\n return
isLetterImpl()\n}\n/**\n * Returns `true` if this character is a letter or digit.\n * @see isLetter\n * @see
isDigit\n * @sample samples.text.Chars.isLetterOrDigit\n */^@SinceKotlin("1.5")^npublic actual fun
Char.isLetterOrDigit(): Boolean {\n if (this in 'a..'z' || this in 'A..'Z' || this in '0..'9') {\n return true\n }\n if
(this < "\u0080") {\n return false\n }\n return isDigitImpl() || isLetterImpl()\n}\n/**\n * Returns `true` if
this character is a digit.\n * A character is considered to be a digit if its [category] is
[CharCategory.DECIMAL_DIGIT_NUMBER].\n * @sample samples.text.Chars.isDigit\n
*/^@SinceKotlin("1.5")^npublic actual fun Char.isDigit(): Boolean {\n if (this in '0..'9') {\n return true\n
}\n if (this < "\u0080") {\n return false\n }\n return isDigitImpl()\n}\n/**\n * Returns `true` if this
character is upper case.\n * A character is considered to be an upper case character if its [category] is
[CharCategory.UPPERCASE_LETTER],\n * or it has contributory property `Other_Uppercase` as defined by the
Unicode Standard.\n * @sample samples.text.Chars.isUpperCase\n */^@SinceKotlin("1.5")^npublic actual fun
Char.isUpperCase(): Boolean {\n if (this in 'A..'Z') {\n return true\n }\n if (this < "\u0080") {\n return
false\n }\n return isUpperCaseImpl()\n}\n/**\n * Returns `true` if this character is lower case.\n * A
character is considered to be a lower case character if its [category] is [CharCategory.LOWERCASE_LETTER],\n *
or it has contributory property `Other_Lowercase` as defined by the Unicode Standard.\n * @sample
samples.text.Chars.isLowerCase\n */^@SinceKotlin("1.5")^npublic actual fun Char.isLowerCase(): Boolean {\n
if (this in 'a..'z') {\n return true\n }\n if (this < "\u0080") {\n return false\n }\n return
isLowerCaseImpl()\n}\n/**\n * Returns `true` if this character is a title case letter.\n * A character is
considered to be a title case letter if its [category] is [CharCategory.TITLECASE_LETTER].\n * @sample
samples.text.Chars.isTitleCase\n */^@SinceKotlin("1.5")^npublic actual fun Char.isTitleCase(): Boolean {\n if
(this < "\u0080") {\n return false\n }\n return getCategoryValue() ==
CharCategory.TITLECASE_LETTER.value\n}\n/**\n * Returns `true` if this character is an ISO control
character.\n * A character is considered to be an ISO control character if its [category] is
[CharCategory.CONTROL],\n * meaning the Char is in the range `"\u0000".."\u001F` or in the range
`"\u007F".."\u009F`.\n * @sample samples.text.Chars.isISOControl\n */^@SinceKotlin("1.5")^npublic actual

```

```

fun Char.isISOControl(): Boolean {
 return this <= '\u001F' || this in '\u007F..\u009F'
}

Determines whether a character is whitespace according to the Unicode standard.
Returns true if the character is whitespace.

@sample samples.text.Chars.isWhitespace
public actual fun Char.isWhitespace(): Boolean = isWhitespaceImpl()

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package kotlin.text
import kotlin.js.RegExp

Converts the characters in the specified array to a string.
@SinceKotlin("1.2")
@Deprecated("Use CharArray.concatToString() instead", ReplaceWith("chars.concatToString()"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5")
public actual fun String(chars: CharArray): String {
 var result = ""
 for (char in chars) {
 result += char
 }
 return result
}

Converts the characters from a portion of the specified array to a string.
@throws IndexOutOfBoundsException if either [offset] or [length] are less than zero
or `offset + length` is out of [chars] array bounds.
@SinceKotlin("1.2")
@Deprecated("Use CharArray.concatToString(startIndex, endIndex) instead", ReplaceWith("chars.concatToString(offset, offset + length)"))
@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5")
public actual fun String(chars: CharArray, offset: Int, length: Int): String {
 if (offset < 0 || length < 0 || chars.size - offset < length)
 throw IndexOutOfBoundsException("size: ${chars.size}; offset: $offset; length: $length")
 var result = ""
 for (index in offset until offset + length) {
 result += chars[index]
 }
 return result
}

Concatenates characters in this [CharArray] into a String.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public actual fun CharArray.concatToString(): String {
 var result = ""
 for (char in this) {
 result += char
 }
 return result
}

Concatenates characters in this [CharArray] or its subrange into a String.
@param startIndex the beginning (inclusive) of the subrange of characters, 0 by default.
@param endIndex the end (exclusive) of the subrange of characters, size of this array by default.
@throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.
@throws IllegalArgumentException if [startIndex] is greater than [endIndex].

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun CharArray.concatToString(startIndex: Int = 0, endIndex: Int = this.size): String {
 AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)
 var result = ""
 for (index in startIndex until endIndex) {
 result += this[index]
 }
 return result
}

Returns a [CharArray] containing characters of this string.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public actual fun String.toCharArray(): CharArray {
 return CharArray(length) { get(it) }
}

Returns a [CharArray] containing characters of this string or its substring.
@param startIndex the beginning (inclusive) of the substring, 0 by default.
@param endIndex the end (exclusive) of the substring, length of this string by default.
@throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.
@throws IllegalArgumentException if [startIndex] is greater than [endIndex].

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun String.toCharArray(startIndex: Int = 0, endIndex: Int = this.length): CharArray {
 AbstractList.checkBoundsIndexes(startIndex, endIndex, length)
 return CharArray(endIndex - startIndex) { get(startIndex + it) }
}

Decodes a string from the bytes in UTF-8 encoding in this array.
Malformed byte sequences are replaced by the replacement char '\uFFFD'.

@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public actual fun ByteArray.decodeToString(): String {
 return decodeUtf8(this, 0, size, false)
}

Decodes a string from the bytes in UTF-8 encoding in this array or its subrange.
@param startIndex the beginning (inclusive) of the subrange to decode, 0 by default.
@param endIndex the end (exclusive) of the subrange to decode, size of this array by default.
@param throwOnInvalidSequence specifies whether to throw an exception on malformed byte sequence or replace it by the replacement char '\uFFFD'.
@throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.
@throws

```

IllegalArgumentException if [startIndex] is greater than [endIndex].\n \* @throws CharacterCodingException if the byte array contains malformed UTF-8 byte sequence and [throwOnInvalidSequence] is true.\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\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,\n throwOnInvalidSequence)\n}\n\n/**\n * Encodes this string to an array of bytes in UTF-8 encoding.\n * Any\n * malformed char sequence is replaced by the replacement byte sequence.\n */\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun\nString.encodeToByteArray(): ByteArray {\n return encodeUtf8(this, 0, length, false)\n}\n\n/**\n * Encodes this\n * string or its substring to an array of bytes in UTF-8 encoding.\n * Any\n * @param startIndex the beginning (inclusive)\n * of the substring to encode, 0 by default.\n * @param endIndex the end (exclusive) of the substring to encode, length\n * of this string by default.\n * @param throwOnInvalidSequence specifies whether to throw an exception on\n * malformed char sequence or replace.\n * Any\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero\n * or [endIndex] is greater than the length of this string.\n * @throws IllegalArgumentException if [startIndex] is\n * greater than [endIndex].\n * @throws CharacterCodingException if this string contains malformed char sequence\n * and [throwOnInvalidSequence] is true.\n */\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual fun String.encodeToByteArray(\n startIndex: Int = 0,\n endIndex: Int = this.length,\n throwOnInvalidSequence: Boolean = false\n): ByteArray {\n AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n return encodeUtf8(this, startIndex, endIndex,\n throwOnInvalidSequence)\n}\n\n/**\n * Returns a copy of this string converted to upper case using the rules of the\n * default locale.\n * Any\n * @Deprecated("Use uppercase() instead.")\n */\nReplaceWith("uppercase()")\n@DeprecatedSinceKotlin(warningSince =\n "1.5")\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toUpperCase(): String =\n asDynamic().toUpperCase()\n\n/**\n * Returns a copy of this string converted to upper case using Unicode mapping\n * rules of the invariant locale.\n * Any\n * This function supports one-to-many and many-to-one character mapping,\n * thus the length of the returned string can be different from the length of the original string.\n * Any\n * @sample\n * samples.text.Strings.uppercase\n */\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic\nactual inline fun String.toUpperCase(): String = asDynamic().toUpperCase()\n\n/**\n * Returns a copy of this string\n * converted to lower case using the rules of the default locale.\n * Any\n * @Deprecated("Use lowercase() instead.")\n */\nReplaceWith("lowercase()")\n@DeprecatedSinceKotlin(warningSince =\n "1.5")\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toLowerCase(): String =\n asDynamic().toLowerCase()\n\n/**\n * Returns a copy of this string converted to lower case using Unicode\n * mapping rules of the invariant locale.\n * Any\n * This function supports one-to-many and many-to-one character\n * mapping,\n * thus the length of the returned string can be different from the length of the original string.\n * Any\n * @sample\n * samples.text.Strings.lowercase\n */\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic\nactual inline fun String.toLowerCase(): String = asDynamic().toLowerCase()\n\n@kotlin.internal.InlineOnly\ninternal\nactual inline fun String.nativeIndexOf(str: String, fromIndex: Int): Int = asDynamic().indexOf(str,\n fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal\nactual inline fun String.nativeLastIndexOf(str: String,\n fromIndex: Int): Int = asDynamic().lastIndexOf(str, fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal\ninline fun\nString.nativeStartsWith(s: String, position: Int): Boolean = asDynamic().startsWith(s,\n position)\n\n@kotlin.internal.InlineOnly\ninternal\ninline fun\nString.nativeEndsWith(s: String): Boolean =\n asDynamic().endsWith(s)\n\n@kotlin.internal.InlineOnly\npublic actual inline fun String.substring(startIndex: Int):\n String = asDynamic().substring(startIndex)\n\n@kotlin.internal.InlineOnly\npublic actual inline fun\nString.substring(startIndex: Int, endIndex: Int): String = asDynamic().substring(startIndex,
```



this case, `this.code - 'a'.code + 10` is returned.  
\* - The Char is one of the fullwidth Latin capital letters '\uFF21' through '\uFF3A' and its [code] is less than `radix + 0xFF21 - 10`. In this case, `this.code - 0xFF21 + 10` is returned.  
\* - The Char is one of the fullwidth Latin small letters '\uFF41' through '\uFF5A' and its [code] is less than `radix + 0xFF41 - 10`. In this case, `this.code - 0xFF41 + 10` is returned.  
\*  
@sample samples.text.Chars.digitToInt

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Char.digitToInt(radix: Int): Int {\n return digitToIntOrNull(radix) ?: throw IllegalArgumentException("\Char $this is not a digit in the given radix=$radix")\n}\n\n/**\n * Returns the numeric value of the decimal digit that this Char represents, or `null` if this Char is not a valid decimal digit.\n * A Char is considered to represent a decimal digit if [isDigit] is true for the Char.\n * In this case, the Unicode decimal digit value of the character is returned.\n *
@sample samples.text.Chars.digitToIntOrNull
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Char.digitToIntOrNull(): Int? {\n return digitOf(this, 10).takeIf { it >= 0 }\n}\n\n/**\n * Returns the numeric value of the digit that this Char represents in the specified [radix], or `null` if this Char is not a valid digit in the specified [radix].\n * Throws an exception if the [radix] is not in the range `2..36`.\n * A Char is considered to represent a digit in the specified [radix] if at least one of the following is true:\n * - [isDigit] is `true` for the Char and the Unicode decimal digit value of the character is less than the specified [radix]. In this case the decimal digit value is returned.\n * - The Char is one of the uppercase Latin letters 'A' through 'Z' and its [code] is less than `radix + 'A'.code - 10`. In this case, `this.code - 'A'.code + 10` is returned.\n * - The Char is one of the lowercase Latin letters 'a' through 'z' and its [code] is less than `radix + 'a'.code - 10`. In this case, `this.code - 'a'.code + 10` is returned.\n * - The Char is one of the fullwidth Latin capital letters '\uFF21' through '\uFF3A' and its [code] is less than `radix + 0xFF21 - 10`. In this case, `this.code - 0xFF21 + 10` is returned.\n * - The Char is one of the fullwidth Latin small letters '\uFF41' through '\uFF5A' and its [code] is less than `radix + 0xFF41 - 10`. In this case, `this.code - 0xFF41 + 10` is returned.\n *
@sample samples.text.Chars.digitToIntOrNull
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Char.digitToIntOrNull(radix: Int): Int? {\n checkRadix(radix)\n return digitOf(this, radix).takeIf { it >= 0 }\n}\n\n/**\n * Returns the Char that represents this decimal digit.\n * Throws an exception if this value is not in the range `0..9`.\n * If this value is in `0..9`, the decimal digit Char with code `'0'.code + this` is returned.\n *
@sample samples.text.Chars.digitToChar
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Int.digitToChar(): Char {\n if (this in 0..9) {\n return '0' + this\n }\n throw IllegalArgumentException("\Int $this is not a decimal digit")\n}\n\n/**\n * Returns the Char that represents this numeric digit value in the specified [radix].\n * Throws an exception if the [radix] is not in the range `2..36` or if this value is not in the range `0` until radix`.\n * If this value is less than `10`, the decimal digit Char with code `'0'.code + this` is returned.\n * Otherwise, the uppercase Latin letter with code `'A'.code + this - 10` is returned.\n *
@sample samples.text.Chars.digitToChar
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Int.digitToChar(radix: Int): Char {\n if (radix !in 2..36) {\n throw IllegalArgumentException("Invalid radix: $radix. Valid radix values are in range 2..36")\n }\n if (this < 0 || this >= radix) {\n throw IllegalArgumentException("Digit $this does not represent a valid digit in radix $radix")\n }\n return if (this < 10) {\n '0' + this\n } else {\n 'A' + this - 10\n }\n}\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the invariant locale.\n *
@Deprecated("Use lowercaseChar() instead.")
```

```
ReplaceWith("lowercaseChar()")\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic expect fun Char.toLowerCase(): Char\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the invariant locale.\n * This function performs one-to-one character mapping.\n * To support one-to-many character mapping use the [lowercase] function.\n * If this character has no mapping equivalent, the character itself is returned.\n *
@sample samples.text.Chars.lowercase
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Char.lowercaseChar(): Char\n\n/**\n * Converts this character to lower case using Unicode mapping rules of the
```

invariant locale.  
 \* This function supports one-to-many character mapping, thus the length of the returned string can be greater than one.  
 \* For example, `'\u0130'.lowercase()` returns `''\u0069\u0307''`, where `'\u0130'` is the LATIN CAPITAL LETTER I WITH DOT ABOVE character (`\ufffd\uuffd`).  
 \* If this character has no lower case mapping, the result of `toString()` of this char is returned.  
 \* @sample  
 samples.text.Chars.lowercase

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Char.lowercase(): String\n/**\n * Converts this character to upper case using Unicode mapping rules of the invariant locale.\n */\n@Deprecated("Use uppercaseChar() instead.")\nReplaceWith("uppercaseChar()")\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic expect fun Char.toUpperCase(): Char\n/**\n * Converts this character to upper case using Unicode mapping rules of the invariant locale.\n */\n * This function performs one-to-one character mapping.

 * To support one-to-many character mapping use the [uppercase] function.

 * If this character has no mapping equivalent, the character itself is returned.

 * @sample samples.text.Chars.uppercase
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Char.uppercaseChar(): Char\n/**\n * Converts this character to upper case using Unicode mapping rules of the invariant locale.\n */\n * This function supports one-to-many character mapping, thus the length of the returned string can be greater than one.

 * For example, '\uFB00'.uppercase() returns ''\u0046\u0046'', where '\uFB00' is the LATIN SMALL LIGATURE FF character (\ufffd\uuffd\uuffd).

 * If this character has no upper case mapping, the result of toString() of this char is returned.

 * @sample samples.text.Chars.uppercase
```

```
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun Char.uppercase(): String\n/**\n * Converts this character to title case using Unicode mapping rules of the invariant locale.\n */\n * This function performs one-to-one character mapping.

 * To support one-to-many character mapping use the [titlecase] function.

 * If this character has no mapping equivalent, the result of calling [uppercaseChar] is returned.

 * @sample samples.text.Chars.titlecase
```

```
*\n@SinceKotlin("1.5")\npublic expect fun Char.titlecaseChar(): Char\n/**\n * Converts this character to title case using Unicode mapping rules of the invariant locale.\n */\n * This function supports one-to-many character mapping, thus the length of the returned string can be greater than one.

 * For example, '\uFB00'.titlecase() returns ''\u0046\u0066'', where '\uFB00' is the LATIN SMALL LIGATURE FF character (\ufffd\uuffd\uuffd).

 * If this character has no title case mapping, the result of [uppercase] is returned instead.

 * @sample samples.text.Chars.titlecase
```

```
*\n@SinceKotlin("1.5")\npublic fun Char.titlecase(): String = titlecaseImpl()\n/**\n * Concatenates this Char and a String.\n */\n * @sample samples.text.Chars.plus
```

```
*\n@kotlin.internal.InlineOnly\npublic inline operator fun Char.plus(other: String): String = this.toString() + other\n/**\n * Returns `true` if this character is equal to the [other] character, optionally ignoring character case.

 * Two characters are considered equal ignoring case if Char.uppercaseChar().lowercaseChar() on each character produces the same result.

 * @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.

 * @sample samples.text.Chars.equals
```

```
*\npublic fun Char.equals(other: Char, ignoreCase: Boolean = false): Boolean {\n if (this == other) return true\n if (!ignoreCase) return false\n val thisUpper = this.uppercaseChar()\n val otherUpper = other.uppercaseChar()\n return thisUpper == otherUpper || thisUpper.lowercaseChar() == otherUpper.lowercaseChar()\n}\n/**\n * Returns `true` if this character is a Unicode surrogate code unit.
```

```
*\npublic fun Char.isSurrogate(): Boolean = this in Char.MIN_SURROGATE..Char.MAX_SURROGATE\n/**\n * Returns the Unicode general category of this character.
```

```
*\n@SinceKotlin("1.5")\npublic expect val Char.category: CharCategory\n/**\n * Returns `true` if this character (Unicode code point) is defined in Unicode.

 * A character is considered to be defined in Unicode if its [category] is not [CharCategory.UNASSIGNED].
```

```
*\n@SinceKotlin("1.5")\npublic expect fun Char.isDefined(): Boolean\n/**\n * Returns `true` if this character is a letter.

 * A character is considered to be a letter if its [category] is [CharCategory.UPPERCASE_LETTER], [CharCategory.LOWERCASE_LETTER], [CharCategory.TITLECASE_LETTER], [CharCategory.MODIFIER_LETTER], or [CharCategory.OTHER_LETTER].
```

```
*\n * @sample samples.text.Chars.isLetter
```

```

*\n@SinceKotlin("1.5")\npublic expect fun Char.isLetter(): Boolean\n\n/**\n * Returns `true` if this character is a letter or digit.\n * @see isLetter\n * @see isDigit\n */\n * @sample samples.text.Chars.isLetterOrDigit\n
*\n@SinceKotlin("1.5")\npublic expect fun Char.isLetterOrDigit(): Boolean\n\n/**\n * Returns `true` if this character is a digit.\n * A character is considered to be a digit if its [category] is [CharCategory.DECIMAL_DIGIT_NUMBER].\n * @sample samples.text.Chars.isDigit\n
*\n@SinceKotlin("1.5")\npublic expect fun Char.isDigit(): Boolean\n\n/**\n * Returns `true` if this character is upper case.\n * A character is considered to be an upper case character if its [category] is [CharCategory.UPPERCASE_LETTER],\n * or it has contributory property `Other_Uppercase` as defined by the Unicode Standard.\n * @sample samples.text.Chars.isUpperCase\n
*\n@SinceKotlin("1.5")\npublic expect fun Char.isUpperCase(): Boolean\n\n/**\n * Returns `true` if this character is lower case.\n * A character is considered to be a lower case character if its [category] is [CharCategory.LOWERCASE_LETTER],\n * or it has contributory property `Other_Lowercase` as defined by the Unicode Standard.\n * @sample samples.text.Chars.isLowerCase\n
*\n@SinceKotlin("1.5")\npublic expect fun Char.isLowerCase(): Boolean\n\n/**\n * Returns `true` if this character is a title case letter.\n * A character is considered to be a title case letter if its [category] is [CharCategory.TITLECASE_LETTER].\n * @sample samples.text.Chars.isTitleCase\n
*\n@SinceKotlin("1.5")\npublic expect fun Char.isTitleCase(): Boolean\n\n/**\n * Returns `true` if this character is an ISO control character.\n * A character is considered to be an ISO control character if its [category] is [CharCategory.CONTROL],\n * meaning the Char is in the range `\\u0000'..'\\u001F` or in the range `\\u007F'..'\\u009F`.\n * @sample samples.text.Chars.isISOControl\n
*\n@SinceKotlin("1.5")\npublic expect fun Char.isISOControl(): Boolean\n\n/**\n * Determines whether a character is whitespace according to the Unicode standard.\n * Returns `true` if the character is whitespace.\n * @sample samples.text.Chars.isWhitespace\n
\npublic expect fun Char.isWhitespace(): Boolean\n","/\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin\n\n/**\n * Creates a Char with the specified [code], or throws an exception if the [code] is out of `Char.MIN_VALUE.code..Char.MAX_VALUE.code`.\n * If the program that calls this function is written in a way that only valid [code] is passed as the argument,\n * using the overload that takes a [UShort] argument is preferable (`Char(intValue.toUShort())`).\n * That overload doesn't check validity of the argument, and may improve program performance when the function is called routinely inside a loop.\n * @sample samples.text.Chars.charFromCode\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Char(code: Int): Char {\n if (code < Char.MIN_VALUE.code || code > Char.MAX_VALUE.code) {\n throw IllegalArgumentException("Invalid Char code: $code")\n }\n return code.toChar()\n}\n\n/**\n * Creates a Char with the specified [code].\n * @sample samples.text.Chars.charFromCode\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("NO_ACTUAL_FOR_EXPECT")\npublic expect fun Char(code: UShort): Char\n\n/**\n * Returns the code of this Char.\n * Code of a Char is the value it was constructed with, and the UTF-16 code unit corresponding to this Char.\n * @sample samples.text.Chars.code\n
\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\n@Suppress("DEPRECATION")\npublic inline val Char.code: Int get() = this.toInt()\n","/\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SequencesKt")\n\npackage kotlin.sequences\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\n\n/**\n * Returns `true` if [element] is found in the sequence.\n * The operation is _terminal_.\n * @npublic operator fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.contains(element: T): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the

```

[index] is out of bounds of this sequence. `@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. `@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. `@sample`

```

samples.collections.Collections.Elements.elementAtOrNull
public fun <T>
Sequence<T>.elementAtOrNull(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. `@sample`

```

samples.collections.Collections.Elements.find
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. `@sample`

```

samples.collections.Collections.Elements.findLast
public inline fun <T>
Sequence<T>.findLast(predicate: (T) -> Boolean): T?
{
 return lastOrNull(predicate)
}

```

Returns first element. `@throws [NoSuchElementException]` if the sequence is empty. `@sample`

```

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. `@sample`

```

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 non-null value produced by [transform] function being applied to elements of this sequence in iteration order, or throws [NoSuchElementException] if no non-null value was produced. `@sample`

```

samples.collections.Collections.Transformations.firstNotNullOf
public inline fun <T, R : Any>
Sequence<T>.firstNotNullOf(transform: (T) -> R?): R
{
 return firstNotNullOfOrNull(transform) ?: throw
 NoSuchElementException("No element of the sequence was transformed to a non-null value.")
}

```

Returns the first non-null value produced by [transform] function being applied to elements of this sequence in iteration order, or `null` if no non-null value was produced. `@sample`

```

samples.collections.Collections.Transformations.firstNotNullOfOrNull
public inline fun <T, R : Any>
Sequence<T>.firstNotNullOfOrNull(transform: (T) -> R?): R?
{
 for (element in this)
 {
 val result = transform(element)
 if (result != null)
 return result
 }
 return null
}

```

Returns the first element, or `null` if the sequence is empty. `@sample`

```

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. `@sample`

```

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. `@sample`

```

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\n index++\n }\n return -1\n}\n\n/**\n * Returns index of the first element matching the given
[predicate], or -1 if the sequence does not contain such element.\n *\n * The operation is _terminal_.\n */\npublic
inline fun <T> Sequence<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n var index = 0\n for (item in this)
{\n checkIndexOverflow(index)\n if (predicate(item))\n return index\n index++\n }\n return -
1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the sequence does not
contain such element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T>
Sequence<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n var lastIndex = -1\n var index = 0\n for (item in
this) {\n checkIndexOverflow(index)\n if (predicate(item))\n lastIndex = index\n index++\n
 }\n return lastIndex\n}\n\n/**\n * Returns the last element.\n *\n * The operation is _terminal_.\n *\n * @throws
NoSuchElementException if the sequence is empty.\n *\n * @sample
samples.collections.Collections.Elements.last\n */\npublic fun <T> Sequence<T>.last(): T {\n val iterator =
iterator()\n if (!iterator.hasNext())\n throw NoSuchElementException("Sequence is empty.")\n var last =
iterator.next()\n while (iterator.hasNext())\n last = iterator.next()\n return last\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n *\n * The operation is _terminal_.\n *\n * @throws
NoSuchElementException if no such element is found.\n *\n * @sample
samples.collections.Collections.Elements.last\n */\npublic inline fun <T> Sequence<T>.last(predicate: (T) ->
Boolean): T {\n var last: T? = null\n var found = false\n for (element in this) {\n if (predicate(element))
{\n last = element\n found = true\n }\n }\n if (!found) throw
NoSuchElementException("Sequence contains no element matching the predicate.")\n @Suppress("UNCHECKED_CAST")\n return last as T\n}\n\n/**\n * Returns last index of [element], or -1 if the
sequence does not contain element.\n *\n * The operation is _terminal_.\n */\npublic fun
<@kotlin.internal.OnlyInputTypes T> Sequence<T>.lastIndexOf(element: T): Int {\n var lastIndex = -1\n var
index = 0\n for (item in this) {\n checkIndexOverflow(index)\n if (element == item)\n lastIndex =
index\n index++\n }\n return lastIndex\n}\n\n/**\n * Returns the last element, or `null` if the sequence is
empty.\n *\n * The operation is _terminal_.\n *\n * @sample samples.collections.Collections.Elements.last\n */\npublic fun <T> Sequence<T>.lastOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext())\n return null\n var last = iterator.next()\n while (iterator.hasNext())\n last = iterator.next()\n return
last\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n
*\n * The operation is _terminal_.\n *\n * @sample samples.collections.Collections.Elements.last\n */\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 * Returns the
single element, or throws an exception if the sequence is empty or has more than one element.\n *\n * The operation
is _terminal_.\n */\npublic fun <T> Sequence<T>.single(): T {\n val iterator = iterator()\n if
(!iterator.hasNext())\n throw NoSuchElementException("Sequence is empty.")\n val single =
iterator.next()\n if (iterator.hasNext())\n throw IllegalArgumentException("Sequence has more than one
element.")\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws
exception if there is no or more than one matching element.\n *\n * The operation is _terminal_.\n */\npublic inline
fun <T> Sequence<T>.single(predicate: (T) -> Boolean): T {\n var single: T? = null\n var found = false\n for
(element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException("Sequence
contains more than one matching element.")\n single = element\n found = true\n }\n }\n if
(!found) throw NoSuchElementException("Sequence contains no element matching the predicate.")\n @Suppress("UNCHECKED_CAST")\n return single as T\n}\n\n/**\n * Returns single element, or `null` if the
sequence is empty or has more than one element.\n *\n * The operation is _terminal_.\n */\npublic fun <T>
Sequence<T>.singleOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext())\n return null\n val
single = iterator.next()\n if (iterator.hasNext())\n return single\n}\n\n/**\n * Returns the single
element matching the given [predicate], or `null` if element was not found or more than one element was found.\n
*\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.singleOrNull(predicate: (T) ->
Boolean): T? {\n var single: T? = null\n var found = false\n for (element in this) {\n if (predicate(element))

```

```

{\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return\n null\n return single\n}\n\n/**\n * Returns a sequence containing all elements except first [n] elements.\n * \n * The\n 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):\n Sequence<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return when {\n n\n == 0 -> this\n this is DropTakeSequence -> this.drop(n)\n else -> DropSequence(this, n)\n }\n}\n\n/**\n * Returns a sequence containing all elements except first elements that satisfy the given [predicate].\n * \n * The\n operation is _intermediate_ and _stateless_.\n * \n * @sample\n samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Sequence<T>.dropWhile(predicate: (T)\n -> Boolean): Sequence<T> {\n return DropWhileSequence(this, predicate)\n}\n\n/**\n * Returns a sequence\n containing only elements matching the given [predicate].\n * \n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Filtering.filter\n */\npublic fun <T> Sequence<T>.filter(predicate:\n (T) -> Boolean): Sequence<T> {\n return FilteringSequence(this, true, predicate)\n}\n\n/**\n * Returns a sequence\n containing only elements matching the given [predicate].\n * \n * @param [predicate] function that takes the index of an\n element and the element itself\n * and returns the result of predicate evaluation on the element.\n * \n * The\n operation is _intermediate_ and _stateless_.\n * \n * @sample\n samples.collections.Collections.Filtering.filterIndexed\n */\npublic fun <T> Sequence<T>.filterIndexed(predicate:\n (index: Int, T) -> Boolean): Sequence<T> {\n // TODO: Rewrite with generalized MapFilterIndexingSequence\n return TransformingSequence(FilteringSequence(IndexingSequence(this), true, { predicate(it.index, it.value) }), { it.value })\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * \n * @param\n [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate\n evaluation on the element.\n * \n * The operation is _terminal_.\n * \n * @sample\n samples.collections.Collections.Filtering.filterIndexedTo\n */\npublic inline fun <T, C : MutableCollection<in T>>\n Sequence<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n forEachIndexed {\n index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return\n destination\n}\n\n/**\n * Returns a sequence containing all elements that are instances of specified type parameter\n R.\n * \n * The operation is _intermediate_ and _stateless_.\n * \n * @sample\n samples.collections.Collections.Filtering.filterIsInstance\n */\npublic inline fun <reified R>\n Sequence<*>.filterIsInstance(): Sequence<@kotlin.internal.NoInfer R> {\n @Suppress(\"UNCHECKED_CAST\")\n return filter { it is R } as Sequence<R>\n}\n\n/**\n * Appends all\n elements that are instances of specified type parameter R to the given [destination].\n * \n * The operation is\n _terminal_.\n * \n * @sample samples.collections.Collections.Filtering.filterIsInstanceTo\n */\npublic inline fun\n <reified R, C : MutableCollection<in R>> Sequence<*>.filterIsInstanceTo(destination: C): C {\n for (element in\n this) if (element is R) destination.add(element)\n return destination\n}\n\n/**\n * Returns a sequence containing\n all elements not matching the given [predicate].\n * \n * The operation is _intermediate_ and _stateless_.\n * \n * @sample\n samples.collections.Collections.Filtering.filter\n */\npublic fun <T> Sequence<T>.filterNot(predicate: (T)\n -> Boolean): Sequence<T> {\n return FilteringSequence(this, false, predicate)\n}\n\n/**\n * Returns a sequence\n containing all elements that are not `null`.\n * \n * The operation is _intermediate_ and _stateless_.\n * \n * @sample\n samples.collections.Collections.Filtering.filterNotNull\n */\npublic fun <T : Any> Sequence<T?>.filterNotNull():\n Sequence<T> {\n @Suppress(\"UNCHECKED_CAST\")\n return filterNot { it == null } as\n Sequence<T>\n}\n\n/**\n * Appends all elements that are not `null` to the given [destination].\n * \n * The operation\n is _terminal_.\n * \n * @sample\n samples.collections.Collections.Filtering.filterNotNullTo\n */\npublic fun <C : MutableCollection<in T>, T : Any> Sequence<T?>.filterNotNullTo(destination: C): C {\n for (element in this) if\n (element != null) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching\n the given [predicate] to the given [destination].\n * \n * The operation is _terminal_.\n * \n * @sample\n samples.collections.Collections.Filtering.filterTo\n */\npublic inline fun <T, C : MutableCollection<in T>>\n Sequence<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if\n (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching

```

the given [predicate] to the given [destination].\n \*\n \* The operation is `_terminal_`.\n \*\n \* @sample samples.collections.Collections.Filtering.filterTo\n \*\n public inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n }\n\n/\*\*\n \* Returns a sequence containing first [n] elements.\n \*\n \* The operation is `_intermediate_` and `_stateless_`. \n \*\n \* @throws IllegalArgumentException if [n] is negative.\n \*\n \* @sample samples.collections.Collections.Transformations.take\n \*\n public fun <T> Sequence<T>.take(n: Int): Sequence<T> {\n require(n >= 0) { "Requested element count \$n is less than zero." }\n return when {\n n == 0 -> emptySequence()\n this is DropTakeSequence -> this.take(n)\n else -> TakeSequence(this, n)\n }\n }\n\n/\*\*\n \* Returns a sequence containing first elements satisfying the given [predicate].\n \*\n \* The operation is `_intermediate_` and `_stateless_`. \n \*\n \* @sample samples.collections.Collections.Transformations.take\n \*\n public fun <T> Sequence<T>.takeWhile(predicate: (T) -> Boolean): Sequence<T> {\n return TakeWhileSequence(this, predicate)\n }\n\n/\*\*\n \* Returns a sequence that yields elements of this sequence sorted according to their natural sort order.\n \*\n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*\n \* The operation is `_intermediate_` and `_stateful_`. \n \*\n public fun <T : Comparable<T>> Sequence<T>.sorted(): Sequence<T> {\n return object : Sequence<T> {\n override fun iterator(): Iterator<T> {\n val sortedList = this@sorted.toMutableList()\n sortedList.sort()\n return sortedList.iterator()\n }\n }\n }\n\n/\*\*\n \* Returns a sequence that yields elements of this sequence sorted according to natural sort order of the value returned by specified [selector] function.\n \*\n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*\n \* The operation is `_intermediate_` and `_stateful_`. \n \*\n \* @sample samples.collections.Collections.Sorting.sortedBy\n \*\n public inline fun <T, R : Comparable<R>> Sequence<T>.sortedBy(crossinline selector: (T) -> R?): Sequence<T> {\n return sortedWith(compareBy(selector))\n }\n\n/\*\*\n \* Returns a sequence that yields elements of this sequence sorted descending according to natural sort order of the value returned by specified [selector] function.\n \*\n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*\n \* The operation is `_intermediate_` and `_stateful_`. \n \*\n public inline fun <T, R : Comparable<R>> Sequence<T>.sortedByDescending(crossinline selector: (T) -> R?): Sequence<T> {\n return sortedWith(compareByDescending(selector))\n }\n\n/\*\*\n \* Returns a sequence that yields elements of this sequence sorted descending according to their natural sort order.\n \*\n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*\n \* The operation is `_intermediate_` and `_stateful_`. \n \*\n public fun <T : Comparable<T>> Sequence<T>.sortedDescending(): Sequence<T> {\n return sortedWith(reverseOrder())\n }\n\n/\*\*\n \* Returns a sequence that yields elements of this sequence sorted according to the specified [comparator].\n \*\n \* The sort is `_stable_`. It means that equal elements preserve their order relative to each other after sorting.\n \*\n \* The operation is `_intermediate_` and `_stateful_`. \n \*\n public fun <T> Sequence<T>.sortedWith(comparator: Comparator<in T>): Sequence<T> {\n return object : Sequence<T> {\n override fun iterator(): Iterator<T> {\n val sortedList = this@sortedWith.toMutableList()\n sortedList.sortWith(comparator)\n return sortedList.iterator()\n }\n }\n }\n\n/\*\*\n \* Returns a [Map] containing key-value pairs provided by [transform] function\n \* applied to elements of the given sequence.\n \*\n \* If any of two pairs would have the same key the last one gets added to the map.\n \*\n \* The returned map preserves the entry iteration order of the original sequence.\n \*\n \* The operation is `_terminal_`. \n \*\n \* @sample samples.collections.Collections.Transformations.associate\n \*\n public inline fun <T, K, V> Sequence<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n return associateTo(LinkedHashMap<K, V>(), transform)\n }\n\n/\*\*\n \* Returns a [Map] containing the elements from the given sequence indexed by the key\n \* returned from [keySelector] function applied to each element.\n \*\n \* If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n \*\n \* The returned map preserves the entry iteration order of the original sequence.\n \*\n \* The operation is `_terminal_`. \n \*\n \* @sample samples.collections.Collections.Transformations.associateBy\n \*\n public inline fun <T, K> Sequence<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n return associateByTo(LinkedHashMap<K, T>(), keySelector)\n }\n\n/\*\*\n \* Returns a [Map] containing the values provided by [valueTransform] and indexed

by [keySelector] functions applied to elements of the given sequence.

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<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 new [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 new [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.\n *^{\npublic fun <T> Sequence<T>.toSet(): Set<T> {\n return
toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n}\n\n/**\n * Returns a single sequence of all elements
from results of [transform] function being invoked on each element of original sequence.\n *\n * The operation is
intermediate and _stateless_.\n *\n * @sample samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIterable")\npublic fun <T, R>
Sequence<T>.flatMap(transform: (T) -> Iterable<R>): Sequence<R> {\n return FlatteningSequence(this,
transform, Iterable<R>::iterator)\n}\n\n/**\n * Returns a single sequence of all elements from results of [transform]
function being invoked on each element of original sequence.\n *\n * The operation is _intermediate_ and
stateless.\n *\n * @sample samples.collections.Collections.Transformations.flatMap\n *\npublic fun <T, R>
Sequence<T>.flatMap(transform: (T) -> Sequence<R>): Sequence<R> {\n return FlatteningSequence(this,
transform, Sequence<R>::iterator)\n}\n\n/**\n * Returns a single sequence of all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original sequence.\n *\n * The operation
is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterable")\npublic fun <T, R>
Sequence<T>.flatMapIndexed(transform: (index: Int, T) -> Iterable<R>): Sequence<R> {\n return
flatMapIndexed(this, transform, Iterable<R>::iterator)\n}\n\n/**\n * Returns a single sequence of all elements
yielded from results of [transform] function being invoked on each element\n * and its index in the original
sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n *\n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequence")\npublic fun <T, R>
Sequence<T>.flatMapIndexed(transform: (index: Int, T) -> Sequence<R>): Sequence<R> {\n return
flatMapIndexed(this, transform, Sequence<R>::iterator)\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original sequence, to the given
[destination].\n *\n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list =
transform(checkIndexOverflow(index++), element)\n destination.addAll(list)\n }\n return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element\n * and its index in the original sequence, to the given [destination].\n *\n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIndexedSequenceTo")\n@kotlin.internal.InlineOnly\npublic
inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.flatMapIndexedTo(destination: C, transform:
(index: Int, T) -> Sequence<R>): C {\n var index = 0\n for (element in this) {\n val list =
transform(checkIndexOverflow(index++), element)\n destination.addAll(list)\n }\n return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original sequence, to the given [destination].\n *\n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("flatMapIterableTo")\npublic inline fun <T, R, C :
MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n for
(element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original sequence, to the given [destination].\n *\n * The operation is _terminal_.\n *\npublic 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

```

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

```

public fun <T, R

```

```

: Any> Sequence<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): Sequence<R> {\n return
TransformingIndexedSequence(this, transform).filterNotNull()\n}\n\n/**\n * Applies the given [transform] function
to each element and its index in the original sequence\n * and appends only the non-null results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun
<T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapIndexedNotNullTo(destination: C, transform: (index:
Int, T) -> R?): C {\n forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n
return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original
sequence\n * and appends the results to the given [destination].\n * @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 * 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 *\n * @sample
samples.collections.Collections.Transformations.mapNotNull\n */\npublic fun <T, R : Any>
Sequence<T>.mapNotNull(transform: (T) -> R?): Sequence<R> {\n return TransformingSequence(this,
transform).filterNotNull()\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 * 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 * 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 * Returns a sequence containing
only distinct elements from the given sequence.\n *\n * Among equal elements of the given sequence, only the first
one will be present in the resulting 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 * Returns a sequence
containing only elements from the given sequence\n * having distinct keys returned by the given [selector]
function.\n *\n * Among elements of the given sequence with equal keys, only the first one will be present in the
resulting 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, K>
Sequence<T>.distinctBy(selector: (T) -> K): Sequence<T> {\n return DistinctSequence(this, selector)\n}\n\n/**\n
* Returns a new [MutableSet] 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 * 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 * 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 inline fun <T>
Sequence<T>.any(): Boolean {\n return iterator().hasNext()\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 \* Returns the number of elements in this sequence.\n \*\n \* The operation is  
\_terminal\_.\n \*\npublic inline fun <T> Sequence<T>.count(): Int {\n var count = 0\n for (element in this)  
checkCountOverflow(++count)\n return count\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 \* Accumulates value starting with [initial] value and applying [operation] from left to  
right\n \* to current accumulator value and each element.\n \*\n \* Returns the specified [initial] value if the sequence  
is empty.\n \*\n \* @param [operation] function that takes current accumulator value and an element, and calculates  
the next accumulator value.\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 \* 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 \* Returns the specified [initial] value if the sequence is empty.\n \*\n \* @param [operation] function that takes the index of an element, current accumulator value\n \* and the element  
itself, and calculates the next accumulator value.\n \*\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 \* 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 \* Performs the given [action] on each element, providing sequential index with the  
element.\n \* @param [action] function that takes the index of an element and the element itself\n \* and performs the  
action on the element.\n \*\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@Deprecated("Use maxOrNull instead.")  
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",  
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Sequence<Double>.max(): Double? {\n return  
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")  
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",  
hiddenSince = "1.6")\n@SinceKotlin("1.1")\npublic fun Sequence<Float>.max(): Float? {\n return  
maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")  
ReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",  
hiddenSince = "1.6")\npublic fun <T : Comparable<T>> Sequence<T>.max(): T? {\n return  
maxOrNull()\n}\n\n@Deprecated("Use maxByOrNull instead.")  
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =  
"1.5", hiddenSince = "1.6")\npublic inline fun <T, R : Comparable<R>> Sequence<T>.maxBy(selector: (T) ->  
R): T? {\n return maxByOrNull(selector)\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.maxByOrNull\n \*\n@SinceKotlin("1.4")\npublic inline fun <T, R :  
Comparable<R>> Sequence<T>.maxByOrNull(selector: (T) -> R): T? {\n val iterator = iterator()\n if  
(iterator.hasNext()) return null\n var maxElem = iterator.next()\n if (!iterator.hasNext()) return maxElem\n var  
maxValue = selector(maxElem)\n do {\n val e = iterator.next()\n val v = selector(e)\n if (maxValue <  
v) {\n maxElem = e\n maxValue = v\n } } while (iterator.hasNext())\n return  
maxElem\n}\n\n\*\*\n \* Returns the largest value among all values produced by [selector] function\n \* applied to  
each element in the sequence.\n \*\n \* If any of values produced by [selector] function is `NaN`, the returned result  
is `NaN`.\n \*\n \* @throws NoSuchElementException if the sequence is empty.\n \*\n \* The operation is

\_terminal\_.

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOf(selector: (T) ->\nDouble): Double {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var\n max\n Value = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n max\n Value = maxOf(max\n Value, v)\n }\n return max\n Value\n}\n\n/**\n * Returns the largest value among all\n * values produced by [selector] function\n * applied to each element in the sequence.\n * If any of values\n * produced by [selector] function is `NaN`, the returned result is `NaN`.\n * @throws NoSuchElementException\n * if the sequence is empty.\n * The operation is _terminal_.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOf(selector: (T) ->\nFloat): Float {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var\n max\n Value = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n max\n Value = maxOf(max\n Value, v)\n }\n return max\n Value\n}\n\n/**\n * Returns the largest value among all\n * values produced by [selector] function\n * applied to each element in the sequence.\n * @throws\n * NoSuchElementException if the sequence is empty.\n * The operation is _terminal_.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>\nSequence<T>.maxOf(selector: (T) -> R): R {\n val iterator = iterator()\n if (!iterator.hasNext()) throw\n NoSuchElementException()\n var max\n Value = selector(iterator.next())\n while (iterator.hasNext()) {\n val v\n = selector(iterator.next())\n if (max\n Value < v) {\n max\n Value = v\n }\n }\n return\n max\n Value\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * If any of values produced by [selector]\n * function is `NaN`, the returned result is `NaN`.\n * The operation is _terminal_.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOfOrNull(selector:\n(T) -> Double): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max\n Value =\n selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n max\n Value =\n maxOf(max\n Value, v)\n }\n return max\n Value\n}\n\n/**\n * Returns the largest value among all values produced\n * by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * If any of\n * values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * The operation is _terminal_.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.maxOfOrNull(selector:\n(T) -> Float): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max\n Value =\n selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n max\n Value =\n maxOf(max\n Value, v)\n }\n return max\n Value\n}\n\n/**\n * Returns the largest value among all values produced\n * by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * The\n * operation is _terminal_.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>\nSequence<T>.maxOfOrNull(selector: (T) -> R): R? {\n val iterator = iterator()\n if (!iterator.hasNext()) return\n null\n var max\n Value = selector(iterator.next())\n while (iterator.hasNext()) {\n val v =\n selector(iterator.next())\n if (max\n Value < v) {\n max\n Value = v\n }\n }\n return\n max\n Value\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values\n * produced by [selector] function applied to each element in the sequence.\n * @throws\n * NoSuchElementException if the sequence is empty.\n * The operation is _terminal_.
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
```

```

Sequence<T>.maxOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {
 val iterator = iterator()
 if (!iterator.hasNext()) throw NoSuchElementException()
 var max = selector(iterator.next())
 while (iterator.hasNext()) {
 val v = selector(iterator.next())
 if (comparator.compare(max, v) < 0) {
 max = v
 }
 }
 return max
}

```

\* Returns the largest value according to the provided [comparator] among all values produced by [selector] function applied to each element in the sequence or `null` if there are no elements.  
 \* The operation is `_terminal_`.

```

* Since Kotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@kotlin.internal.InlineOnly
public inline fun <T, R>
Sequence<T>.maxOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {
 val iterator = iterator()
 if (!iterator.hasNext()) return null
 var max = selector(iterator.next())
 while (iterator.hasNext()) {
 val v = selector(iterator.next())
 if (comparator.compare(max, v) < 0) {
 max = v
 }
 }
 return max
}

```

\* Returns the largest element or `null` if there are no elements.  
 \* If any of elements is `NaN` returns `NaN`.  
 \* The operation is `_terminal_`.

```

* Since Kotlin("1.4")
public fun Sequence<Double>.maxOrNull(): Double? {
 val iterator = iterator()
 if (!iterator.hasNext()) return null
 var max = iterator.next()
 while (iterator.hasNext()) {
 val e = iterator.next()
 max = maxOf(max, e)
 }
 return max
}

```

\* Returns the largest element or `null` if there are no elements.  
 \* If any of elements is `NaN` returns `NaN`.  
 \* The operation is `_terminal_`.

```

* Since Kotlin("1.4")
public fun Sequence<Float>.maxOrNull(): Float? {
 val iterator = iterator()
 if (!iterator.hasNext()) return null
 var max = iterator.next()
 while (iterator.hasNext()) {
 val e = iterator.next()
 max = maxOf(max, e)
 }
 return max
}

```

\* Returns the largest element or `null` if there are no elements.  
 \* The operation is `_terminal_`.

```

* Since Kotlin("1.4")
public fun <T : Comparable<T>> Sequence<T>.maxOrNull(): T? {
 val iterator = iterator()
 if (!iterator.hasNext()) return null
 var max = iterator.next()
 while (iterator.hasNext()) {
 val e = iterator.next()
 if (max < e) max = e
 }
 return max
}

```

@Deprecated("Use maxWithOrNull instead.")  
 ReplaceWith("this.maxWithOrNull(comparator)")  
 @DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")  
 public fun <T> Sequence<T>.maxWith(comparator: Comparator<in T>): T? {  
 return maxWithOrNull(comparator)  
}

\* Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.  
 \* The operation is `_terminal_`.

```

* Since Kotlin("1.4")
public fun <T> Sequence<T>.maxWithOrNull(comparator: Comparator<in T>): T? {
 val iterator = iterator()
 if (!iterator.hasNext()) return null
 var max = iterator.next()
 while (iterator.hasNext()) {
 val e = iterator.next()
 if (comparator.compare(max, e) < 0) max = e
 }
 return max
}

```

@Deprecated("Use minOrNull instead.")  
 ReplaceWith("this.minOrNull()")  
 @DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")  
 @SinceKotlin("1.1")  
 public fun Sequence<Double>.min(): Double? {  
 return minOrNull()  
}

@Deprecated("Use minOrNull()")  
 ReplaceWith("this.minOrNull()")  
 @DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")  
 @SinceKotlin("1.1")  
 public fun Sequence<Float>.min(): Float? {  
 return minOrNull()  
}

@Deprecated("Use minOrNull()")  
 ReplaceWith("this.minOrNull()")  
 @DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")  
 public fun <T : Comparable<T>> Sequence<T>.min(): T? {  
 return minOrNull()  
}

@Deprecated("Use minByOrNull instead.")  
 ReplaceWith("this.minByOrNull(selector)")  
 @DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5", hiddenSince = "1.6")  
 public inline fun <T, R : Comparable<R>> Sequence<T>.minBy(selector: (T) -> R): T? {  
 return minByOrNull(selector)  
}

\* Returns the first element yielding the smallest value of the given function or `null` if there are no elements.  
 \* The operation is `_terminal_`.  
 \* @sample samples.collections.Collections.Aggregates.minByOrNull

```

* Since Kotlin("1.4")
public inline fun <T, R : Comparable<R>> Sequence<T>.minByOrNull(selector: (T) -> R): T? {
 val iterator = iterator()
 if (!iterator.hasNext()) return null
 var minElem = iterator.next()
 if (!iterator.hasNext()) return minElem
 var

```

```

minValue = selector(minElem)\n do {\n val e = iterator.next()\n val v = selector(e)\n if (minValue >
v) {\n minElem = e\n minValue = v\n }\n } while (iterator.hasNext())\n return
minElem\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result
is `NaN`.\n * \n * @throws NoSuchElementException if the sequence is empty.\n * \n * The operation is
terminal.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOf(selector: (T) ->
Double): Double {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var
minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n
minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the sequence.\n * \n * If any of values
produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException
if the sequence is empty.\n * \n * The operation is _terminal_.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOf(selector: (T) ->
Float): Float {\n val iterator = iterator()\n if (!iterator.hasNext()) throw NoSuchElementException()\n var
minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n
minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all
values produced by [selector] function\n * applied to each element in the sequence.\n * \n * @throws
NoSuchElementException if the sequence is empty.\n * \n * The operation is _terminal_.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Sequence<T>.minOf(selector: (T) -> R): R {\n val iterator = iterator()\n if (!iterator.hasNext()) throw
NoSuchElementException()\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v
= selector(iterator.next())\n if (minValue > v) {\n minValue = v\n }\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each element in the sequence or `null` if there are no elements.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * The operation is _terminal_.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOrNull(selector:
(T) -> Double): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var minValue =
selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * The operation is
terminal.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minOrNull(selector:
(T) -> Float): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var minValue =
selector(iterator.next())\n while (iterator.hasNext()) {\n val v = selector(iterator.next())\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the sequence or `null` if there are no elements.\n * \n * The
operation is _terminal_.\n

```

```

*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R : Comparable<R>>
Sequence<T>.minOrNull(selector: (T) -> R): R? {\n val iterator = iterator()\n if (!iterator.hasNext()) return
null\n var minValue = selector(iterator.next())\n while (iterator.hasNext()) {\n val v =
selector(iterator.next())\n if (minValue > v) {\n minValue = v\n }\n }\n return

```

```

minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the sequence.\n * \n * @throws
NoSuchElementException if the sequence is empty.\n *\n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Sequence<T>.minOfWith(comparator: Comparator<in R>, selector: (T) -> R): R {\n val iterator = iterator()\n if
(!iterator.hasNext()) throw NoSuchElementException()\n var minValue = selector(iterator.next())\n while
(iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(minValue, v) > 0) {\n
 minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the
provided [comparator]\n * among all values produced by [selector] function applied to each element in the sequence
or `null` if there are no elements.\n *\n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <T, R>
Sequence<T>.minOfWithOrNull(comparator: Comparator<in R>, selector: (T) -> R): R? {\n val iterator =
iterator()\n if (!iterator.hasNext()) return null\n var minValue = selector(iterator.next())\n while
(iterator.hasNext()) {\n val v = selector(iterator.next())\n if (comparator.compare(minValue, v) > 0) {\n
 minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest element or `null` if there are
no elements.\n *\n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\npublic fun Sequence<Double>.minOrNull(): Double? {\n val iterator = iterator()\n if
(!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e =
iterator.next()\n min = minOf(min, e)\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if
there are no elements.\n *\n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\npublic fun Sequence<Float>.minOrNull(): Float? {\n val iterator = iterator()\n if
(!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e =
iterator.next()\n min = minOf(min, e)\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if
there are no elements.\n *\n * The operation is _terminal_.\n *\n@SinceKotlin("1.4")\npublic fun <T :
Comparable<T>> Sequence<T>.minOrNull(): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return
null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (min > e) min
= e\n }\n return min\n}\n\n@Deprecated("Use minWithOrNull instead.")
ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\npublic fun <T> Sequence<T>.minWith(comparator: Comparator<in T>): T? {\n
return minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to
the provided [comparator] or `null` if there are no elements.\n *\n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\npublic fun <T> Sequence<T>.minWithOrNull(comparator: Comparator<in T>): T? {\n
val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while
(iterator.hasNext()) {\n val e = iterator.next()\n if (comparator.compare(min, e) > 0) min = e\n }\n return
min\n}\n\n/**\n * Returns `true` if the sequence has no elements.\n *\n * The operation is _terminal_.\n *\n *
@sample samples.collections.Collections.Aggregates.none\n *\n@SinceKotlin("1.4")\npublic fun <T> Sequence<T>.none(): Boolean {\n
return !iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n *\n * The
operation is _terminal_.\n *\n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n
*\n@SinceKotlin("1.4")\npublic inline fun <T> Sequence<T>.none(predicate: (T) -> Boolean): Boolean {\n for (element in this) if
(predicate(element)) return false\n return true\n}\n\n/**\n * Returns a sequence which performs the given [action]
on each element of the original sequence as they pass through it.\n *\n * The operation is _intermediate_ and
stateless.\n *\n@SinceKotlin("1.1")\npublic fun <T> Sequence<T>.onEach(action: (T) -> Unit): Sequence<T>
{\n return map {\n action(it)\n it\n }\n}\n\n/**\n * Returns a sequence which performs the given
[action] on each element of the original sequence as they pass through it.\n *\n * @param [action] function that takes
the index of an element and the element itself\n * and performs the action on the element.\n *\n * The operation is
intermediate and _stateless_.\n *\n@SinceKotlin("1.4")\npublic fun <T> Sequence<T>.onEachIndexed(action:

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(index: Int, T) -> Unit): Sequence<T> {\n return mapIndexed { index, element ->\n action(index, element)\n element\n }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to\n * right\n * to current accumulator value and each element.\n * \n * Throws an exception if this sequence is empty. If\n * the sequence can be empty in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its\n * receiver is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * The operation is _terminal_.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduce\n */\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())\n throw UnsupportedOperationException("Empty sequence can't be reduced.")\n var accumulator: S =\n 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\n * left to right\n * to current accumulator value and each element with its index in the original sequence.\n * \n * Throws an exception if this sequence is empty. If the sequence can be empty in an expected way,\n * please use\n * [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function\n * that takes the index of an element, current accumulator value and the element itself,\n * and calculates the next\n * accumulator value.\n * \n * The operation is _terminal_.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduce\n */\n\npublic inline fun <S, T : S>\nSequence<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n val iterator = this.iterator()\n if\n (!iterator.hasNext()) throw UnsupportedOperationException("Empty sequence can't be reduced.")\n var index =\n 1\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator =\n operation(checkIndexOverflow(index++), accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current\n * accumulator value and each element with its index in the original sequence.\n * \n * Returns `null` if the sequence is\n * empty.\n * \n * @param [operation] function that takes the index of an element, current accumulator value and the\n * element itself,\n * and calculates the next accumulator value.\n * \n * The operation is _terminal_.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceOrNull\n */\n\npublic inline fun <S, T : S>\nSequence<T>.reduceIndexedOrNull(operation: (index: Int, acc: S, T) -> S): S? {\n val iterator = this.iterator()\n if\n (!iterator.hasNext()) return null\n var index = 1\n var accumulator: S = iterator.next()\n while\n (iterator.hasNext()) {\n accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation]\n * from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the sequence is\n * empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates\n * the next accumulator value.\n * \n * The operation is _terminal_.\n * \n * @sample\n * samples.collections.Collections.Aggregates.reduceOrNull\n */\n\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]\n * function should not be mutated;\n * otherwise it would affect the previous value in resulting sequence.\n * \n * The\n * [initial] value should also be immutable (or should not be mutated)\n * as it may be passed to [operation] function\n * later because of sequence's lazy nature.\n * \n * @param [operation] function that takes current accumulator value\n * and an element, and calculates the next accumulator value.\n * \n * The operation is _intermediate_ and\n * _stateless_.\n * \n * @sample\n * samples.collections.Collections.Aggregates.runningFold\n */\n\npublic fun <T, R> Sequence<T>.runningFold(initial: R, operation: (acc: R, T) -> R):\nSequence<R> {\n return sequence {\n yield(initial)\n var accumulator = initial\n for (element in\n this@runningFold) {\n accumulator = operation(accumulator, element)\n yield(accumulator)\n }\n }\n}

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}
}

Returns a sequence containing successive accumulation values generated by applying [operation]
from left to right to each element, its index in the original sequence 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 sequence. The [initial] value should also be immutable
(or should not be mutated) as it may be passed to [operation] function later because of sequence's lazy nature.
@param [operation] function that takes the index of an element, current accumulator value and the
element itself, and calculates the next accumulator value. The operation is _intermediate_ and _stateless_.
@sample samples.collections.Collections.Aggregates.runningFold
*/
@SinceKotlin("1.4")
public fun
<T, R> Sequence<T>.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {
return sequence {
yield(initial)
var index = 0
var accumulator = initial
for (element in
this@runningFoldIndexed) {
accumulator = operation(checkIndexOverflow(index++), accumulator,
element)
yield(accumulator)
}
}
}

Returns a sequence 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 sequence. Note that `acc` value passed to
[operation] function should not be mutated; otherwise it would affect the previous value in resulting sequence.
@param [operation] function that takes current accumulator value and the element, and calculates the next
accumulator value. The operation is _intermediate_ and _stateless_.
@sample
samples.collections.Collections.Aggregates.runningReduce
*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun <S, T : S>
Sequence<T>.runningReduce(operation: (acc: S, T) -> S): Sequence<S> {
return sequence {
val iterator =
iterator()
if (iterator.hasNext()) {
var accumulator: S = iterator.next()
yield(accumulator)
while (iterator.hasNext()) {
accumulator = operation(accumulator, iterator.next())
yield(accumulator)
}
}
}
}

Returns a sequence containing successive accumulation
values generated by applying [operation] from left to right to each element, its index in the original sequence and
current accumulator value that starts with the first element of this sequence. Note that `acc` value passed to
[operation] function should not be mutated; otherwise it would affect the previous value in resulting sequence.
@param [operation] function that takes the index of an element, current accumulator value and the
element itself, and calculates the next accumulator value. The operation is _intermediate_ and _stateless_.
@sample
samples.collections.Collections.Aggregates.runningReduce
*/
@SinceKotlin("1.4")
public fun
<S, T : S> Sequence<T>.runningReduceIndexed(operation: (index: Int, acc: S, T) -> S): Sequence<S> {
return
sequence {
val iterator = iterator()
if (iterator.hasNext()) {
var accumulator: S =
iterator.next()
yield(accumulator)
var index = 1
while (iterator.hasNext()) {
accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())
yield(accumulator)
}
}
}
}

Returns a sequence 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 sequence. The [initial] value should also be immutable
(or should not be mutated) as it may be passed to [operation] function later because of sequence's lazy nature.
@param [operation] function that takes current accumulator value and an element, and calculates the next
accumulator value. The operation is _intermediate_ and _stateless_.
@sample
samples.collections.Collections.Aggregates.scan
*/
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public fun <T, R>
Sequence<T>.scan(initial: R, operation: (acc: R, T) -> R): Sequence<R> {
return runningFold(initial,
operation)
}

Returns a sequence containing successive accumulation values generated by applying
[operation] from left to right to each element, its index in the original sequence 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 sequence. The [initial] value should also be immutable
(or should not be mutated) as it may be passed to [operation] function later because of sequence's lazy nature.

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* \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
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T, R>
Sequence<T>.scanIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): Sequence<R> {\n return
runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the sequence.\n *\n * The operation is _terminal_.\n *\n@Deprecated("Use sumOf
instead.", ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic 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\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@Deprecated("Use
sumOf instead.", ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
"1.5")\npublic 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 return sum\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@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Sequence<T>.sumOf(selector: (T) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element
in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Sequence<T>.sumOf(selector: (T) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the sequence.\n *\n * The operation is _terminal_.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
<T> Sequence<T>.sumOf(selector: (T) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this)
{\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.sumOf(selector: (T) -> UInt): UInt {\n
 var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the
sequence.\n *\n * The operation is _terminal_.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.sumOf(selector: (T) -> ULong):
ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n
return sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an
[IllegalArgumentException] if there are any `null` elements.\n *\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 fewer
elements than the given [size].\n *\n * @param size the number of elements to take in each list, must be positive
and can be greater than the number of elements in this sequence.\n *\n * The operation is _intermediate_ and

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 else\n
 return this@minus.filterNot { it in other }.iterator()\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 */\n@kotlin.internal.InlineOnly\npublic inline fun <T>
Sequence<T>.minusElement(element: T): Sequence<T> {\n
 return minus(element)\n}\n\n/**\n * Splits the
original sequence into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n *
while *second* list contains elements for which [predicate] yielded `false`.\n *\n * The operation is _terminal_.\n *
\n * @sample samples.collections.Sequences.Transformations.partition\n */\npublic inline fun <T>
Sequence<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 sequence
containing all elements of the original sequence and then the given [element].\n *\n * The operation is
intermediate and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(element: T): Sequence<T> {\n
 return sequenceOf(this, sequenceOf(element)).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of
original sequence and then all elements of the given [elements] array.\n *\n * Note that the source sequence and the
array being added 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_ and
stateless.\n */\npublic operator fun <T> Sequence<T>.plus(elements: Array<out T>): Sequence<T> {\n
 return
this.plus(elements.asList())\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and then
all elements of the given [elements] collection.\n *\n * Note that the source sequence and the collection being added
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_ and _stateless_.\n */
\npublic operator fun <T> Sequence<T>.plus(elements: Iterable<T>): Sequence<T> {\n
 return sequenceOf(this,
elements.asSequence()).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and
then all elements of the given [elements] sequence.\n *\n * Note that the source sequence and the sequence being
added 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_ and _stateless_.\n */
\npublic operator fun <T> Sequence<T>.plus(elements: Sequence<T>): Sequence<T> {\n
 return
sequenceOf(this, elements).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of the original
sequence and then the given [element].\n *\n * The operation is _intermediate_ and _stateless_.\n */
\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.plusElement(element: T): Sequence<T> {\n
 return plus(element)\n}\n\n/**\n * Returns a sequence of snapshots of the window of the given [size]\n * sliding
along this sequence with the given [step], where each\n * snapshot is a list.\n *\n * Several last lists may have fewer
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 sequence.\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 * @sample samples.collections.Sequences.Transformations.takeWindows\n */
\n@SinceKotlin("1.2")\npublic fun <T> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows:
Boolean = false): Sequence<List<T>> {\n
 return windowedSequence(size, step, partialWindows, reuseBuffer =
false)\n}\n\n/**\n * Returns a sequence 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 sequence 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 fewer 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 sequence.\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

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samples.collections.Sequences.Transformations.averageWindows\n *^@SinceKotlin("1.2")\npublic fun <T, R>
Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R):
Sequence<R> {\n return windowedSequence(size, step, partialWindows, reuseBuffer =
true).map(transform)\n}\n\n/**\n * Returns a sequence of values built from the elements of `this` sequence and the
[other] sequence with the same index.\n * The resulting sequence ends as soon as the shortest input sequence ends.\n
*\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Sequences.Transformations.zip\n *^@SinceKotlin("1.2")\npublic infix fun <T, R> Sequence<T>.zip(other:
Sequence<R>): Sequence<Pair<T, R>> {\n return MergingSequence(this, other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n *
Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same
index\n * using the provided [transform] function applied to each pair of elements.\n * The resulting sequence ends
as soon as the shortest input sequence ends.\n * \n * The operation is _intermediate_ and _stateless_.\n * \n *
@sample samples.collections.Sequences.Transformations.zipWithTransform\n *^@SinceKotlin("1.2")\npublic fun <T, R, V>
Sequence<T>.zip(other: Sequence<R>, transform: (a: T, b: R) -> V): Sequence<V> {\n return
MergingSequence(this, other, transform)\n}\n\n/**\n * Returns a sequence of pairs of each two adjacent elements in
this sequence.\n * \n * The returned sequence is empty if this sequence contains less than two elements.\n * \n * The
operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Transformations.zipWithNext\n *^@SinceKotlin("1.2")\npublic fun <T>
Sequence<T>.zipWithNext(): Sequence<Pair<T, T>> {\n return zipWithNext { a, b -> a to b }\n}\n\n/**\n *
Returns a sequence containing the results of applying the given [transform] function\n * to an each pair of two
adjacent elements in this sequence.\n * \n * The returned sequence is empty if this sequence contains less than two
elements.\n * \n * The operation is _intermediate_ and _stateless_.\n * \n * @sample
samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n *^@SinceKotlin("1.2")\npublic
fun <T, R> Sequence<T>.zipWithNext(transform: (a: T, b: T) -> R): Sequence<R> {\n return sequence result@
{\n val iterator = iterator()\n if (!iterator.hasNext()) return @result\n var current = iterator.next()\n
while (iterator.hasNext()) {\n val next = iterator.next()\n yield(transform(current, next))\n
current = next\n }\n }\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and
using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-
negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the
[truncated] string (which defaults to "...").\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Transformations.joinTo\n *^@SinceKotlin("1.2")\npublic fun <T, A : Appendable>
Sequence<T>.joinTo(buffer: A, separator: CharSequence = ",", prefix: CharSequence = "\", postfix:
CharSequence = "\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): A
{\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1)
buffer.append(separator)\n if (limit < 0 || count <= limit) {\n buffer.appendElement(element, transform)\n
 } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n
return buffer\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given
[prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of
[limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which
defaults to "...").\n * \n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Transformations.joinToString\n *^@SinceKotlin("1.2")\npublic fun <T>
Sequence<T>.joinToString(separator: CharSequence = ",", prefix: CharSequence = "\", postfix: CharSequence =
\"", limit: Int = -1, truncated: CharSequence = "...", transform: ((T) -> CharSequence)? = null): String {\n return
joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates an
[Iterable] instance that wraps the original sequence returning its elements when being iterated.\n * \n * @sample
samples.collections.Collections.Transformations.asIterable\n *^@SinceKotlin("1.2")\npublic fun <T>
Sequence<T>.asIterable(): Iterable<T> {\n return Iterable { this.iterator() }\n}\n\n/**\n * Returns this sequence as
a [Sequence].\n * \n * @sample samples.collections.Collections.Transformations.asSequence\n *^@SinceKotlin("1.2")\npublic inline fun <T> Sequence<T>.asSequence(): Sequence<T>
{\n return this\n}\n\n/**\n * Returns an average value of elements in the sequence.\n * \n * The operation is
terminal.\n * \n * @sample samples.collections.Collections.Transformations.averageOfByte\n *^@SinceKotlin("1.2")\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 }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName("averageOfShort")\npublic fun Sequence<Short>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName("averageOfInt")\npublic fun Sequence<Int>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName("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 }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName("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 }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName("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 }\n return if (count == 0) Double.NaN else sum / count\n}\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/**\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/**\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/**\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/**\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/**\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"/>\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("SetsKt")\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 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\npublic 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 == element) { removed = true; false } else true }\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained in the given [elements] array.\n *\n * The returned set preserves the element

```

iteration order of the original set.

Before Kotlin 1.6, the [elements] array may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have a correct and stable implementation of hashCode() that didn't change between successive invocations.

On JVM, you can enable this behavior back with the system property kotlin.collections.convert\_arg\_to\_set\_in\_removeAll set to true.

public operator fun <T> Set<T>.minus(elements: Array<out T>): Set<T> {  
 val result = LinkedHashSet<T>(this)  
 result.removeAll(elements)  
 return result  
}

Returns a set containing all elements of the original set except the elements contained in the given [elements] collection.

The returned set preserves the element iteration order of the original set.

Before Kotlin 1.6, the [elements] collection may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have a correct and stable implementation of hashCode() that didn't change between successive invocations.

On JVM, you can enable this behavior back with the system property kotlin.collections.convert\_arg\_to\_set\_in\_removeAll set to true.

public operator fun <T> Set<T>.minus(elements: Iterable<T>): Set<T> {  
 val other = elements.convertToSetForSetOperationWith(this)  
 if (other.isEmpty()) return this.toSet()  
 if (other is Set) return this.filterNotTo(LinkedHashSet<T>()) { it in other }  
 val result = LinkedHashSet<T>(this)  
 result.removeAll(other)  
 return result  
}

Returns a set containing all elements of the original set except the elements contained in the given [elements] sequence.

The returned set preserves the element iteration order of the original set.

Before Kotlin 1.6, the [elements] sequence may have been converted to a [HashSet] to speed up the operation, thus the elements were required to have a correct and stable implementation of hashCode() that didn't change between successive invocations.

On JVM, you can enable this behavior back with the system property kotlin.collections.convert\_arg\_to\_set\_in\_removeAll set to true.

public operator fun <T> Set<T>.minus(elements: Sequence<T>): Set<T> {  
 val result = LinkedHashSet<T>(this)  
 result.removeAll(elements)  
 return result  
}

Returns a set containing all elements of the original set except the given [element].

The returned set preserves the element iteration order of the original set.

@kotlin.internal.InlineOnly  
 public inline fun <T> Set<T>.minusElement(element: T): Set<T> {  
 return minus(element)  
}

Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.

The returned set preserves the element iteration order of the original set.

public operator fun <T> Set<T>.plus(element: T): Set<T> {  
 val result = LinkedHashSet<T>(mapCapacity(size + 1))  
 result.addAll(this)  
 result.add(element)  
 return result  
}

Returns a set containing all elements of the original set and the given [elements] array, which aren't already in this set.

The returned set preserves the element iteration order of the original set.

public operator fun <T> Set<T>.plus(elements: Array<out T>): Set<T> {  
 val result = LinkedHashSet<T>(mapCapacity(this.size + elements.size))  
 result.addAll(this)  
 result.addAll(elements)  
 return result  
}

Returns a set containing all elements of the original set and the given [elements] collection, which aren't already in this set.

The returned set preserves the element iteration order of the original set.

public operator fun <T> Set<T>.plus(elements: Iterable<T>): Set<T> {  
 val result = LinkedHashSet<T>(mapCapacity(elements.collectionSizeOrNull()?.let { this.size + it } ?: this.size \* 2))  
 result.addAll(this)  
 result.addAll(elements)  
 return result  
}

Returns a set containing all elements of the original set and the given [elements] sequence, which aren't already in this set.

The returned set preserves the element iteration order of the original set.

public operator fun <T> Set<T>.plus(elements: Sequence<T>): Set<T> {  
 val result = LinkedHashSet<T>(mapCapacity(this.size \* 2))  
 result.addAll(this)  
 result.addAll(elements)  
 return result  
}

Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.

The returned set preserves the element iteration order of the original set.

@kotlin.internal.InlineOnly  
 public inline fun <T> Set<T>.plusElement(element: T): Set<T> {  
 return plus(element)  
}

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@file:kotlin.jvm.JvmMultifileClass  
 @file:kotlin.jvm.JvmName("StringsKt")  
 package kotlin.text  
 // NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt  
 // See:

```

https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib
import kotlin.random.*
 * Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char sequence.
 * @sample samples.collections.Collections.Elements.elementAt
 * public expect fun CharSequence.elementAt(index: Int): Char
 * Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this char sequence.
 * @sample samples.collections.Collections.Elements.elementAtOrElse
 * @kotlin.internal.InlineOnly
 * public inline fun CharSequence.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {
 * return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
 * }
 * Returns a character at the given [index] or `null` if the [index] is out of bounds of this char sequence.
 * @sample samples.collections.Collections.Elements.elementAtOrNull
 * @kotlin.internal.InlineOnly
 * public inline fun CharSequence.elementAtOrNull(index: Int): Char? {
 * return this.getOrNull(index)
 * }
 * Returns the first character matching the given [predicate], or `null` if no such character was found.
 * @sample samples.collections.Collections.Elements.find
 * @kotlin.internal.InlineOnly
 * public inline fun CharSequence.find(predicate: (Char) -> Boolean): Char? {
 * return firstOrNull(predicate)
 * }
 * Returns the last character matching the given [predicate], or `null` if no such character was found.
 * @sample samples.collections.Collections.Elements.findLast
 * @kotlin.internal.InlineOnly
 * public inline fun CharSequence.findLast(predicate: (Char) -> Boolean): Char? {
 * return lastOrNull(predicate)
 * }
 * Returns first character.
 * @throws [NoSuchElementException] if the char sequence is empty.
 * public fun CharSequence.first(): Char {
 * if (isEmpty()) throw NoSuchElementException("Char sequence is empty.")
 * return this[0]
 * }
 * Returns the first character matching the given [predicate].
 * @throws [NoSuchElementException] if no such character is found.
 * public inline fun CharSequence.first(predicate: (Char) -> Boolean): Char {
 * for (element in this) if (predicate(element)) return element
 * throw NoSuchElementException("Char sequence contains no character matching the predicate.")
 * }
 * Returns the first non-null value produced by [transform] function being applied to characters of this char sequence in iteration order,
 * or throws [NoSuchElementException] if no non-null value was produced.
 * @sample samples.collections.Collections.Transformations.firstNotNullOf
 * @SinceKotlin("1.5")
 * @kotlin.internal.InlineOnly
 * public inline fun <R : Any> CharSequence.firstNotNullOf(transform: (Char) -> R?): R {
 * return firstNotNullOfOrNull(transform) ?: throw NoSuchElementException("No element of the char sequence was transformed to a non-null value.")
 * }
 * Returns the first non-null value produced by [transform] function being applied to characters of this char sequence in iteration order,
 * or `null` if no non-null value was produced.
 * @sample samples.collections.Collections.Transformations.firstNotNullOfOrNull
 * @SinceKotlin("1.5")
 * @kotlin.internal.InlineOnly
 * public inline fun <R : Any> CharSequence.firstNotNullOfOrNull(transform: (Char) -> R?): R? {
 * for (element in this) {
 * val result = transform(element)
 * if (result != null) return result
 * }
 * return null
 * }
 * Returns the first character, or `null` if the char sequence is empty.
 * public fun CharSequence.firstOrNull(): Char? {
 * return if (isEmpty()) null else this[0]
 * }
 * Returns the first character matching the given [predicate], or `null` if character was not found.
 * public inline fun CharSequence.firstOrNull(predicate: (Char) -> Boolean): Char? {
 * for (element in this) if (predicate(element)) return element
 * return null
 * }
 * 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.
 * @kotlin.internal.InlineOnly
 * public inline fun CharSequence.getOrNull(index: Int, defaultValue: (Int) -> Char): Char {
 * return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)
 * }
 * Returns a character at the given [index] or `null` if the [index] is out of bounds of this char sequence.
 * @sample samples.collections.Collections.Elements.getOrNull
 * public fun CharSequence.getOrNull(index: Int): Char? {
 * return if (index >= 0 && index <= lastIndex) get(index) else null
 * }
 * Returns index of the first character matching the given [predicate], or -1 if the char sequence does not contain such character.
 * public inline fun CharSequence.indexOfFirst(predicate: (Char) -> Boolean): Int {
 * for (index in indices) if (predicate(this[index])) return index
 * return -1
 * }

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l\n}\n\n/**\n * Returns index of the last character matching the given [predicate], or -1 if the char sequence does
not contain such character.\n *\npublic inline fun CharSequence.indexOfLast(predicate: (Char) -> Boolean): Int {\n
for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -
1\n}\n\n/**\n * Returns the last character.\n * \n * @throws NoSuchElementException if the char sequence is
empty.\n * \n * @sample samples.text.Strings.last\n *\npublic fun CharSequence.last(): Char {\n if (isEmpty())\n throw NoSuchElementException("Char sequence is empty.")\n return this[lastIndex]\n}\n\n/**\n * Returns the
last character matching the given [predicate].\n * \n * @throws NoSuchElementException if no such character is
found.\n * \n * @sample samples.text.Strings.last\n *\npublic inline fun CharSequence.last(predicate: (Char) ->
Boolean): Char {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if
(predicate(element)) return element\n }\n throw NoSuchElementException("Char sequence contains no
character matching the predicate.")\n}\n\n/**\n * Returns the last character, or `null` if the char sequence is
empty.\n * \n * @sample samples.text.Strings.last\n *\npublic fun CharSequence.lastOrNull(): Char? {\n return if
(isEmpty()) null else this[length - 1]\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null`
if no such character was found.\n * \n * @sample samples.text.Strings.last\n *\npublic inline fun
CharSequence.lastOrNull(predicate: (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 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 *
*\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 *
*\n * @SinceKotlin("1.4")\n * @WasExperimental(ExperimentalStdlibApi::class)\n * @kotlin.internal.InlineOnly\npubli
c 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("1.4")\n * @WasExperimental(ExperimentalStdlibApi::class)\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 * \n * @public 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 *
*\n * @public 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 *
*\n * @public 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 * \n * @public 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) {\n "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

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String.filterNot(predicate: (Char) -> Boolean): String {
 return filterNotTo(StringBuilder(),
predicate).toString()
}

Appendable * Appendable * @sample samples.collections.Collections.Filtering.filterTo
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
}

Appendable * Appendable * Appendable * @sample
samples.collections.Collections.Filtering.filterTo
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 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." }
 return subSequence(0, n.coerceAtMost(length))
}

Returns a string containing the first [n]
characters from this string, or the entire string if this string is shorter.
throws IllegalArgumentException if [n]
is negative.
sample samples.text.Strings.take
public fun String.take(n: Int): String {
 require(
n >= 0) { "Requested character count $n is less than zero." }
 return substring(0,
n.coerceAtMost(length))
}

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.
throws
IllegalArgumentException if [n] is negative.
sample samples.text.Strings.take
public fun
CharSequence.takeLast(n: Int): CharSequence {
 require(n >= 0) { "Requested character count $n is less than
zero." }
 val length = length
 return subSequence(length - n.coerceAtMost(length), length)
}

Returns a string containing the last [n] characters from this string, or the entire string if this string is shorter.
throws
IllegalArgumentException if [n] is negative.
sample samples.text.Strings.take
public fun
String.takeLast(n: Int): String {
 require(n >= 0) { "Requested character count $n is less than zero." }
 val
length = length
 return substring(length - n.coerceAtMost(length))
}

Returns a subsequence of this
char sequence containing last characters that satisfy the given [predicate].
sample
samples.text.Strings.take
public inline fun CharSequence.takeLastWhile(predicate: (Char) -> Boolean):
CharSequence {
 for (index in lastIndex downTo 0) {
 if (!predicate(this[index])) {
 return
subSequence(index + 1, length)
 }
 }
 return subSequence(0, length)
}

Returns a string
containing last characters that satisfy the given [predicate].
sample samples.text.Strings.take
public inline fun String.takeLastWhile(predicate: (Char) -> Boolean): String {
 for (index in lastIndex downTo 0) {
 if (!predicate(this[index])) {
 return substring(index + 1)
 }
 }
 return this
}

Returns a subsequence of this char sequence containing the first characters that satisfy the given [predicate].
sample
samples.text.Strings.take
public inline fun CharSequence.takeWhile(predicate: (Char) -> Boolean):
CharSequence {
 for (index in 0 until length) {
 if (!predicate(get(index))) {
 return subSequence(0,
index)
 }
 }
 return subSequence(0, length)
}

Returns a string containing the first characters that
satisfy the given [predicate].
sample samples.text.Strings.take
public inline fun

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String.takeWhile(predicate: (Char) -> Boolean): String {
 for (index in 0 until length)
 if (!predicate(get(index)))
 return substring(0, index)
 return this
}
* Returns a char sequence with characters in reversed order.
public fun CharSequence.reversed(): CharSequence {
 return StringBuilder(this).reverse()
}
* Returns a string with characters in reversed order.
@kotlin.internal.InlineOnly
public inline fun String.reversed(): String {
 return (this as CharSequence).reversed().toString()
}
* Returns a [Map] containing key-value pairs provided by [transform] function
* applied to characters of the given char 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 char sequence.
@sample samples.text.Strings.associate
public inline fun <K, V> CharSequence.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {
 val capacity = mapCapacity(length).coerceAtLeast(16)
 return associateTo(LinkedHashMap<K, V>(capacity), transform)
}
* Returns a [Map] containing the characters from the given char sequence indexed by the key
* returned from [keySelector] function applied to each character.
* If any two characters 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 char sequence.
@sample samples.text.Strings.associateBy
public inline fun <K> CharSequence.associateBy(keySelector: (Char) -> K): Map<K, Char> {
 val capacity = mapCapacity(length).coerceAtLeast(16)
 return associateByTo(LinkedHashMap<K, Char>(capacity), keySelector)
}
* Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to characters of the given char sequence.
* If any two characters 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 char sequence.
@sample samples.text.Strings.associateByWithValueTransform
public inline fun <K, V> CharSequence.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {
 val capacity = mapCapacity(length).coerceAtLeast(16)
 return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)
}
* Populates and returns the [destination] mutable map with key-value pairs,
* where key is provided by the [keySelector] function applied to each character of the given char sequence
* and value is the character itself.
* If any two characters would have the same key returned by [keySelector] the last one gets added to the map.
@sample samples.text.Strings.associateByTo
public inline fun <K, M : MutableMap<in K, in Char>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K): M {
 for (element in this)
 destination.put(keySelector(element), element)
 return destination
}
* Populates and returns the [destination] mutable map with key-value pairs,
* where key is provided by the [keySelector] function and
* and value is provided by the [valueTransform] function applied to characters of the given char sequence.
* If any two characters would have the same key returned by [keySelector] the last one gets added to the map.
@sample samples.text.Strings.associateByToWithValueTransform
public inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.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 character of the given char sequence.
* If any of two pairs would have the same key the last one gets added to the map.
@sample samples.text.Strings.associateTo
public inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {
 for (element in this)
 destination += transform(element)
 return destination
}
* Returns a [Map] where keys are characters from the given char sequence and values are
* produced by the [valueSelector] function applied to each character.
* If any two characters are equal, the last one gets added to the map.
* The returned map preserves the entry iteration order of the original char sequence.
@sample samples.text.Strings.associateWith
@SinceKotlin("1.3")
public inline fun <V> CharSequence.associateWith(valueSelector: (Char) -> V): Map<Char, V> {
 val result = LinkedHashMap<Char, V>(mapCapacity(length).coerceAtMost(128)).coerceAtLeast(16)
 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")\n\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 \*\n\npublic fun <C : MutableCollection<in Char>> CharSequence.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/\*\*\n \* Returns a new [HashSet] of all characters.\n \*\n\npublic fun CharSequence.toHashSet(): HashSet<Char> {\n return toCollection(HashSet<Char>(mapCapacity(length.coerceAtMost(128))))\n}\n\n/\*\*\n \* Returns a [List] containing all characters.\n \*\n\npublic fun CharSequence.toList(): List<Char> {\n return when (length) {\n 0 -> emptyList()\n 1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/\*\*\n \* Returns a new [MutableList] filled with all characters of this char sequence.\n \*\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 \*\n\npublic fun CharSequence.toSet(): Set<Char> {\n return when (length) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Char>(mapCapacity(length.coerceAtMost(128))))\n }\n}\n\n/\*\*\n \* Returns a single list of all elements yielded from results of [transform] function being invoked on each character of original char sequence.\n \* \n \* @sample samples.collections.Collections.Transformations.flatMap\n \*\n\npublic inline fun <R> CharSequence.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Returns a single list of all elements yielded from results of [transform] function being invoked on each character\n \* and its index in the original char sequence.\n \* \n \* @sample samples.collections.Collections.Transformations.flatMapIndexed\n \*\n\n \* @SinceKotlin("1.4")\n \* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n \* @OverloadResolutionByLambdaReturnType\n \* @kotlin.jvm.JvmName("flatMapIndexedIterable")\n \* @kotlin.internal.InlineOnly\n\npublic inline fun <R> CharSequence.flatMapIndexed(transform: (index: Int, Char) -> Iterable<R>): List<R> {\n return flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/\*\*\n \* Appends all elements yielded from results of [transform] function being invoked on each character\n \* and its index in the original char sequence, to the given [destination].\n \*\n\n \* @SinceKotlin("1.4")\n \* @OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n \* @OverloadResolutionByLambdaReturnType\n \* @kotlin.jvm.JvmName("flatMapIndexedIterableTo")\n \* @kotlin.internal.InlineOnly\n\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapIndexedTo(destination: C, transform: (index: Int, Char) -> Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n destination.addAll(list)\n }\n return destination\n}\n\n/\*\*\n \* Appends all elements yielded from results of [transform] function being invoked on each character of original char sequence, to the given [destination].\n \*\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



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samples.collections.Collections.Transformations.mapNotNull\n *^\npublic inline fun <R : Any>
CharSequence.mapNotNull(transform: (Char) -> R?): List<R> {\n return mapNotNullTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Applies the given [transform] function to each character in the original char sequence\n *
and appends only the non-null results to the given [destination].\n *^\npublic inline fun <R : Any, C :
MutableCollection<in R>> CharSequence.mapNotNullTo(destination: C, transform: (Char) -> R?): C {\n forEach
{ element -> transform(element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given
[transform] function to each character of the original char sequence\n * and appends the results to the given
[destination].\n *^\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.mapTo(destination: C,
transform: (Char) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return
destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each character of the original char sequence\n * into an
[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 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\n * to current accumulator value and each character.\n * \n
* Returns the specified [initial] value if the char sequence is empty.\n * \n * @param [operation] function that takes
current accumulator value and a character, and calculates the next accumulator value.\n *^\npublic inline fun <R>
CharSequence.fold(initial: R, operation: (acc: R, Char) -> R): R {\n var accumulator = initial\n for (element in
this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each
character with its index in the original char sequence.\n * \n * Returns the specified [initial] value if the char
sequence is empty.\n * \n * @param [operation] function that takes the index of a character, current accumulator
value\n * and the character itself, and calculates the next accumulator value.\n *^\npublic inline fun <R>
CharSequence.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {\n var index = 0\n var
accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return
accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to
left\n * to each character and current accumulator value.\n * \n * Returns the specified [initial] value if the char
sequence is empty.\n * \n * @param [operation] function that takes a character and current accumulator value, and
calculates the next accumulator value.\n *^\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 * \n * Returns the specified [initial] value if the char
sequence is empty.\n * \n * @param [operation] function that takes the index of a character, the character itself\n *
and current accumulator value, and calculates the next accumulator value.\n *^\npublic inline fun <R>
CharSequence.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {\n var index =
lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Performs the given [action] on each

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character.\n */\npublic inline fun CharSequence.forEach(action: (Char) -> Unit): Unit {\n for (element in this)
action(element)\n}\n\n/**\n * Performs the given [action] on each character, providing sequential index with the
character.\n * @param [action] function that takes the index of a character and the character itself\n * and performs
the action on the character.\n */\npublic inline fun CharSequence.forEachIndexed(action: (index: Int, Char) -> Unit):
Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n@Deprecated("Use maxOrNull
instead.", ReplaceWith("this.maxOrNull()"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic fun CharSequence.max(): Char? {\n return
maxOrNull()\n}\n\n@Deprecated("Use maxByOrNull instead.",
ReplaceWith("this.maxByOrNull(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince = "1.6")\npublic inline fun <R : Comparable<R>> CharSequence.maxBy(selector: (Char) ->
R): Char? {\n return maxByOrNull(selector)\n}\n\n/**\n * Returns the first character yielding the largest value of
the given function or `null` if there are no characters.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n */\n@SinceKotlin("1.4")\npublic inline fun <R :
Comparable<R>> CharSequence.maxByOrNull(selector: (Char) -> R): Char? {\n if (isEmpty()) return null\n var
maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxV =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxV < v)
{\n maxElem = e\n maxV = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the largest
value among all values produced by [selector] function\n * applied to each character in the char sequence.\n * \n * If
any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the char sequence is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOf(selector: (Char) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var maxV = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxV = maxOf(maxV, v)\n }\n return
maxV\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each character in the char sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOf(selector: (Char) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var maxV = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxV = maxOf(maxV, v)\n }\n return
maxV\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each character in the char sequence.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharSequence.maxOf(selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
maxV = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxV < v) {\n
 maxV = v\n }\n }\n return maxV\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no
characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.maxOfOrNull(selector:
(Char) -> Double): Double? {\n if (isEmpty()) return null\n var maxV = selector(this[0])\n for (i
in 1..lastIndex) {\n val v = selector(this[i])\n maxV = maxOf(maxV, v)\n }\n return
maxV\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to
each character in the char sequence or `null` if there are no characters.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOf(selector: (Char) ->
Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for
(i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each character in the char sequence.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOf(selector: (Char) ->
Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each character in the char sequence.\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharSequence.minOf(selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
 minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values
produced by [selector] function\n * applied to each character in the char sequence or `null` if there are no
characters.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOfOrNull(selector:
(Char) -> Double): Double? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each character in the char sequence or `null` if there are no characters.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.minOfOrNull(selector:
(Char) -> Float): Float? {\n if (isEmpty()) return null\n var minValue = selector(this[0])\n for (i in
1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return
minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to
each character in the char sequence or `null` if there are no characters.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
CharSequence.minOfOrNull(selector: (Char) -> R): R? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
 minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided
[comparator]\n * among all values produced by [selector] function applied to each character in the char sequence.\n
*\n * \n * @throws NoSuchElementException if the char sequence is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R> CharSequence.minOfWith(comparator:
Comparator<in R>, selector: (Char) -> R): R {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each character in the char sequence or `null` if there are no characters.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@kotlin.internal.InlineOnly\npublic inline fun <R>
CharSequence.minOfOrNull(comparator: Comparator<in R>, selector: (Char) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\nReturns the smallest character or `null` if there are no characters.\n\n*/\n@SinceKotlin("1.4")\npublic fun
CharSequence.minOrNull(): Char? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n
 val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n@Deprecated("Use minWithOrNull
instead.", ReplaceWith("this.minWithOrNull(comparator)"))\n@DeprecatedSinceKotlin(warningSince = "1.4",
errorSince = "1.5", hiddenSince = "1.6")\npublic fun CharSequence.minWith(comparator: Comparator<in
Char>): Char? {\n return minWithOrNull(comparator)\n}\n\n*/\n\nReturns the first character having the smallest
value according to the provided [comparator] or `null` if there are no characters.\n
\n*/\n@SinceKotlin("1.4")\npublic fun CharSequence.minWithOrNull(comparator: Comparator<in Char>): Char?
{\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if
(comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n*/\n\nReturns `true` if the char sequence has
no characters.\n\n*/\n\n@sample samples.collections.Collections.Aggregates.none\n\n*/\n\npublic fun
CharSequence.none(): Boolean {\n return isEmpty()\n}\n\n*/\n\nReturns `true` if no characters match the given
[predicate].\n\n*/\n\n@sample samples.collections.Collections.Aggregates.noneWithPredicate\n\n*/\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\n*/\n\nPerforms the given [action] on each character and returns the char sequence itself
afterwards.\n\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\n*/\n\nPerforms the given [action] on each
character, providing sequential index with the character,\n\n*/\n\nand returns the char sequence itself afterwards.\n\n*/
\n\n@param [action] function that takes the index of a character and the character itself\n\n*/\n\nand performs the action on
the character.\n\n*/\n@SinceKotlin("1.4")\npublic inline fun <S : CharSequence> S.onEachIndexed(action: (index:
Int, Char) -> Unit): S {\n return apply { forEachIndexed(action) }\n}\n\n*/\n\n*/\n\nAccumulates value starting with
the first character and applying [operation] from left to right\n\n*/\n\n* to current accumulator value and each character.\n\n*/
\n\n*/\n\nThrows an exception if this char sequence is empty. If the char sequence can be empty in an expected way,\n\n*/
\n\nplease use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n\n*/\n\n*/\n\n@param [operation] function
that takes current accumulator value and a character,\n\n*/\n\nand calculates the next accumulator value.\n\n*/\n\n*/\n
\n\n@sample samples.collections.Collections.Aggregates.reduce\n\n*/\n\n*/\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\n*/\n\nAccumulates value starting with the first character and applying [operation] from left to
right\n\n*/\n\n* to current accumulator value and each character with its index in the original char sequence.\n\n*/\n\n*/
\n\nThrows an exception if this char sequence is empty. If the char sequence can be empty in an expected way,\n\n*/
\n\nplease use [reduceIndexedOrNull] instead. It returns `null` when its receiver is empty.\n\n*/\n\n*/\n\n@param [operation]
function that takes the index of a character, current accumulator value and the character itself,\n\n*/\n\nand calculates the
next accumulator value.\n\n*/\n\n*/\n\n@sample samples.collections.Collections.Aggregates.reduce\n\n*/\n\n*/\n\npublic inline fun
CharSequence.reduceIndexed(operation: (index: Int, 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(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n*/\n\n*/\n\nAccumulates value starting with the first character and applying [operation] from left to
right\n\n*/\n\n* to current accumulator value and each character with its index in the original char sequence.\n\n*/\n\n*/
\n\nReturns `null` if the char sequence is empty.\n\n*/\n\n*/\n\n@param [operation] function that takes the index of a
character, current accumulator value and the character itself,\n\n*/\n\nand calculates the next accumulator value.\n\n*/\n\n*/
\n\n@sample samples.collections.Collections.Aggregates.reduceOrNull\n\n*/\n\n*/\n\n@SinceKotlin("1.4")\npublic inline fun
CharSequence.reduceIndexedOrNull(operation: (index: Int, acc: Char, Char) -> Char): Char? {\n if (isEmpty())\n

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return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index,
accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first
character and applying [operation] from left to right\n * to current accumulator value and each character.\n * \n *
Returns `null` if the char sequence is empty.\n * \n * @param [operation] function that takes current accumulator
value and a character,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharSequence.reduceOrNull(operation: (acc: Char, Char) -> Char): Char? {\n if (isEmpty())\n return null\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation]
from right to left\n * to each character and current accumulator value.\n * \n * Throws an exception if this char
sequence is empty. If the char sequence can be empty in an expected way,\n * please use [reduceRightOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes a character and
current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight\n *\npublic inline fun
CharSequence.reduceRight(operation: (Char, acc: Char) -> Char): Char {\n var index = lastIndex\n if (index < 0)
throw UnsupportedOperationException("Empty char sequence can't be reduced.")\n var accumulator = get(index-
-)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation] from right to
left\n * to each character with its index in the original char sequence and current accumulator value.\n * \n * Throws
an exception if this char sequence is empty. If the char sequence can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]
function that takes the index of a character, the character itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n *\npublic
inline fun CharSequence.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n var index
= lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty char sequence can't be reduced.")\n var
accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index),
accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last
character and applying [operation] from right to left\n * to each character with its index in the original char
sequence and current accumulator value.\n * \n * Returns `null` if the char sequence is empty.\n * \n * @param [operation]
function that takes the index of a character, the character itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\npublic inline fun CharSequence.reduceRightIndexedOrNull(operation: (index: Int, Char,
acc: Char) -> Char): Char? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index-
-)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the last character and applying [operation] from
right to left\n * to each character and current accumulator value.\n * \n * Returns `null` if the char sequence is
empty.\n * \n * @param [operation] function that takes a character and current accumulator value,\n * and calculates
the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun
CharSequence.reduceRightOrNull(operation: (Char, acc: Char) -> Char): Char? {\n var index = lastIndex\n if
(index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator =
operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Returns a list containing successive
accumulation values generated by applying [operation] from left to right\n * to each character and current
accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function
should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation]
function that takes current accumulator value and a character, and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.runningFold\n *\n@SinceKotlin("1.4")\npublic inline fun

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<R> CharSequence.runningFold(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
}

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 [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 a character, current
accumulator value and the character itself, and calculates the next accumulator
value.
@sample samples.collections.Collections.Aggregates.runningFold

Since Kotlin("1.4")
public inline fun <R> CharSequence.runningFoldIndexed(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.runningReduce

Since Kotlin("1.4")
public inline fun CharSequence.runningReduce(operation: (acc: Char, Char) -> Char): List<Char> {
 if (isEmpty()) return emptyList()
 var accumulator = this[0]
 val result = ArrayList<Char>(length).apply { add(accumulator) }
 for (index in 1 until length) {
 accumulator = operation(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, 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.runningReduce

Since Kotlin("1.4")
public inline fun CharSequence.runningReduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): List<Char> {
 if (isEmpty()) return emptyList()
 var accumulator = this[0]
 val result = ArrayList<Char>(length).apply { add(accumulator) }
 for (index in 1 until length) {
 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 [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 a character,
and calculates the next accumulator value.
@sample
samples.collections.Collections.Aggregates.scan

Since Kotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <R> CharSequence.scan(initial: R, operation: (acc: R, Char) -> R): List<R> {
 return runningFold(initial, operation)
}

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 [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 a character, current
accumulator value and the character itself, and calculates the next accumulator
value.
@sample
samples.collections.Collections.Aggregates.scan

Since Kotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
public inline fun <R> CharSequence.scanIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): List<R> {
 return

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runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each character in the char sequence.\n *\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
CharSequence.sumBy(selector: (Char) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum +=
selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each character in the char sequence.\n *\n@Deprecated("Use sumOf instead.",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic inline fun
CharSequence.sumByDouble(selector: (Char) -> Double): Double {\n var sum: Double = 0.0\n for (element in
this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each character in the char sequence.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfDouble")\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.sumOf(selector: (Char) -> Double): Double {\n var sum: Double = 0.toDouble()\n for (element in
this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each character in the char sequence.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfInt")\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.sumOf(selector: (Char) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum
+= selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each character in the char sequence.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfLong")\n@kotlin.internal.InlineOnly\npublic inline fun
CharSequence.sumOf(selector: (Char) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n
 sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by
[selector] function applied to each character in the char sequence.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfUInt")\n@WasExperimental(ExperimentalUnsignedType
s::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.sumOf(selector: (Char) -> UInt): UInt {\n
 var sum: UInt = 0.toUInt()\n for (element in this) {\n sum += selector(element)\n }\n return
sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char
sequence.\n
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@kotlin.jvm.JvmName("sumOfULong")\n@WasExperimental(ExperimentalUnsignedTy
pes::class)\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.sumOf(selector: (Char) -> ULong):
ULong {\n var sum: ULong = 0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n
return sum\n}\n\n/**\n * Splits this char sequence into a list of strings each not exceeding the given [size].\n * \n *
The last string in the resulting list may have fewer characters than the given [size].\n * \n * @param size the number
of elements to take in each string, must be positive and can be greater than the number of elements in this char
sequence.\n * \n * @sample samples.text.Strings.chunked\n *\n@SinceKotlin("1.2")\npublic fun
CharSequence.chunked(size: Int): List<String> {\n return windowed(size, size, partialWindows =
true)\n}\n\n/**\n * Splits this char sequence into several char sequences each not exceeding the given [size]\n * and
applies the given [transform] function to an each.\n * \n * @return list of results of the [transform] applied to an
each char sequence.\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid
only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot
of it.\n * The last char sequence may have fewer characters than the given [size].\n * \n * @param size the number
of elements to take in each char sequence, must be positive and can be greater than the number of elements in this
char sequence.\n * \n * @sample samples.text.Strings.chunkedTransform\n *\n@SinceKotlin("1.2")\npublic fun
<R> CharSequence.chunked(size: Int, transform: (CharSequence) -> R): List<R> {\n return windowed(size, size,

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partialWindows = true, transform = transform)\n}\n\n/\*\*\n \* Splits this char sequence into a sequence of strings each not exceeding the given [size].\n \* \n \* The last string in the resulting sequence may have fewer characters than the given [size].\n \* \n \* @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in this char sequence.\n \* \n \* @sample

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samples.collections.Collections.Transformations.chunked\n *^\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]\n * 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.\n * \n * The last char sequence may have fewer characters than the given [size].\n * \n * @param size the
number of elements to take in each char sequence, must be positive and can be greater than the number of elements
in this char sequence.\n * \n * @sample samples.text.Strings.chunkedTransformToSequence\n
*^\n@SinceKotlin("1.2")\npublic fun <R> CharSequence.chunkedSequence(size: Int, transform: (CharSequence) -
> R): Sequence<R> {\n return windowedSequence(size, size, partialWindows = true, transform =
transform)\n}\n\n/**\n * Splits the original char sequence into pair of char sequences,\n * where *first* char
sequence contains characters for which [predicate] yielded `true`,\n * while *second* char sequence contains
characters for which [predicate] yielded `false`.\n * \n * @sample samples.text.Strings.partition\n *^\npublic inline
fun CharSequence.partition(predicate: (Char) -> Boolean): Pair<CharSequence, CharSequence> {\n val first =
StringBuilder()\n val second = StringBuilder()\n for (element in this) {\n if (predicate(element)) {\n
first.append(element)\n } else {\n second.append(element)\n }\n }\n return Pair(first,
second)\n}\n\n/**\n * Splits the original string into pair of strings,\n * where *first* string contains characters for
which [predicate] yielded `true`,\n * while *second* string contains characters for which [predicate] yielded
`false`.\n * \n * @sample samples.text.Strings.partition\n *^\npublic inline fun String.partition(predicate: (Char) ->
Boolean): Pair<String, String> {\n val first = StringBuilder()\n val second = StringBuilder()\n for (element in
this) {\n if (predicate(element)) {\n first.append(element)\n } else {\n
second.append(element)\n }\n }\n return Pair(first.toString(), second.toString())\n}\n\n/**\n * Returns a list
of snapshots of the window of the given [size]\n * sliding along this char sequence with the given [step], where
each\n * snapshot is a string.\n * \n * Several last strings may have fewer characters than the given [size].\n * \n *
Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n *
\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 *
\n * @sample samples.collections.Sequences.Transformations.takeWindows\n *^\n@SinceKotlin("1.2")\npublic fun
CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<String> {\n return
windowed(size, step, partialWindows) { it.toString() }\n}\n\n/**\n * Returns a list of results of applying the given
[transform] function to\n * an each char sequence representing a view over the window of the given [size]\n *
sliding along this char sequence with the given [step].\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 * Several last char sequences may have fewer characters than the given
[size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this char
sequence.\n * \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 <R> CharSequence.windowed(size: Int, step: Int = 1, partialWindows:
Boolean = false, transform: (CharSequence) -> R): List<R> {\n checkWindowSizeStep(size, step)\n val thisSize
= this.length\n val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n val result =

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ArrayList<R>(resultCapacity)\n var index = 0\n while (index in 0 until thisSize) {\n val end = index + size\n val coercedEnd = if (end < 0 || end > thisSize) { if (partialWindows) thisSize else break } else end\n result.add(transform(subSequence(index, coercedEnd)))\n index += step\n }\n return result\n}\n\n/**\n * Returns a sequence of snapshots of the window of the given [size]\n * sliding along this char sequence with the given [step], where each\n * snapshot is a string.\n * Several last strings may have fewer characters than the given [size].\n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\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 * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n\n@SinceKotlin("1.2")\npublic fun CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<String> {\n return windowedSequence(size, step, partialWindows) { it.toString() }\n}\n\n/**\n * Returns a sequence of results of applying the given [transform] function to\n * an each char sequence representing a view over the window of the given [size]\n * sliding along this char sequence with the given [step].\n * Note that the char sequence 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 char sequences may have fewer characters than the given [size].\n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\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 * @sample samples.collections.Sequences.Transformations.averageWindows\n */\n\n@SinceKotlin("1.2")\npublic fun <R> CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R): Sequence<R> {\n checkWindowSizeStep(size, step)\n val windows = (if (partialWindows) indices else 0 until length - size + 1) step step\n return windows.asSequence().map { index ->\n val end = index + size\n val coercedEnd = if (end < 0 || end > length) length else end\n transform(subSequence(index, coercedEnd))\n }\n}\n\n/**\n * Returns a list of pairs built from the characters of `this` and the [other] char sequences with the same index\n * The returned list has length of the shortest char sequence.\n * @sample samples.text.Strings.zip\n */\n\npublic infix fun CharSequence.zip(other: CharSequence): List<Pair<Char, Char>> {\n return zip(other) { c1, c2 -> c1 to c2 }\n}\n\n/**\n * Returns a list of values built from the characters of `this` and the [other] char sequences with the same index\n * using the provided [transform] function applied to each pair of characters.\n * The returned list has length of the shortest char sequence.\n * @sample samples.text.Strings.zipWithTransform\n */\n\npublic inline fun <V> CharSequence.zip(other: CharSequence, transform: (a: Char, b: Char) -> V): List<V> {\n val length = minOf(this.length, other.length)\n val list = ArrayList<V>(length)\n for (i in 0 until length) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of pairs of each two adjacent characters in this char sequence.\n * The returned list is empty if this char sequence contains less than two characters.\n * @sample samples.collections.Collections.Transformations.zipWithNext\n */\n\n@SinceKotlin("1.2")\npublic fun CharSequence.zipWithNext(): List<Pair<Char, Char>> {\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 characters in this char sequence.\n * The returned list is empty if this char sequence contains less than two characters.\n * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n */\n\n@SinceKotlin("1.2")\npublic inline fun <R> CharSequence.zipWithNext(transform: (a: Char, b: Char) -> R): List<R> {\n val size = length - 1\n if (size < 1) return emptyList()\n val result = ArrayList<R>(size)\n for (index in 0 until size) {\n result.add(transform(this[index], this[index + 1]))\n }\n return result\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original char sequence returning its characters when being iterated.\n */\n\npublic fun CharSequence.asIterable(): Iterable<Char> {\n if (this is String && isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original char sequence

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returning its characters when being iterated.\n */\npublic fun CharSequence.asSequence(): Sequence<Char> {\n if
(this is String && isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n"/**\n *
Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage
kotlin.text\nimport kotlin.contracts.contract\nimport kotlin.jvm.JvmName\n/**\n * Returns a copy of this string
converted to upper case using the rules of the default locale.\n */\n@Deprecated("Use uppercase() instead.",
ReplaceWith("uppercase()"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic expect fun
String.toUpperCase(): String\n/**\n * Returns a copy of this string converted to upper case using Unicode
mapping rules of the invariant locale.\n */\n * This function supports one-to-many and many-to-one character
mapping,\n * thus the length of the returned string can be different from the length of the original string.\n */\n *
@sample samples.text.Strings.uppercase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
String.uppercase(): String\n/**\n * Returns a copy of this string converted to lower case using the rules of the
default locale.\n */\n@Deprecated("Use lowercase() instead.",
ReplaceWith("lowercase()"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic expect fun
String.toLowerCase(): String\n/**\n * Returns a copy of this string converted to lower case using Unicode
mapping rules of the invariant locale.\n */\n * This function supports one-to-many and many-to-one character
mapping,\n * thus the length of the returned string can be different from the length of the original string.\n */\n *
@sample samples.text.Strings.lowercase\n
*/\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun
String.lowercase(): String\n/**\n * Returns a copy of this string having its first letter titlecased using the rules of
the default locale,\n * or the original string if it's empty or already starts with a title case letter.\n */\n * The title case
of a character is usually the same as its upper case with several exceptions.\n * The particular list of characters with
the special title case form depends on the underlying platform.\n */\n * @sample samples.text.Strings.capitalize\n
*/\n@Deprecated("Use replaceFirstChar instead.", ReplaceWith("replaceFirstChar { if (it.isLowerCase())
it.titlecase() else it.toString() }"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic expect fun
String.capitalize(): String\n/**\n * Returns a copy of this string having its first letter lowercased using the rules of
the default locale,\n * or the original string if it's empty or already starts with a lower case letter.\n */\n * @sample
samples.text.Strings.decapitalize\n */\n@Deprecated("Use replaceFirstChar instead.",
ReplaceWith("replaceFirstChar { it.lowercase() }"))\n@DeprecatedSinceKotlin(warningSince = "1.5")\npublic
expect fun String.decapitalize(): String\n/**\n * Returns a sub sequence of this char sequence having leading and
trailing characters matching the [predicate] removed.\n */\npublic inline fun CharSequence.trim(predicate: (Char) ->
Boolean): CharSequence {\n var startIndex = 0\n var endIndex = length - 1\n var startFound = false\n while (startIndex <= endIndex) {\n val index = if (!startFound) startIndex else endIndex\n val match =
predicate(this[index])\n if (!startFound) {\n if (!match)\n startFound = true\n else\n startIndex += 1\n } else {\n if (!match)\n break\n else\n endIndex -= 1\n }\n }\n return subSequence(startIndex, endIndex + 1)\n}\n/**\n * Returns a string having leading and
trailing characters matching the [predicate] removed.\n */\npublic inline fun String.trim(predicate: (Char) ->
Boolean): String =\n (this as CharSequence).trim(predicate).toString()\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 this.indices)\n if
(!predicate(this[index]))\n return subSequence(index, length)\n return ""\n}\n/**\n * Returns a string
having leading characters matching the [predicate] removed.\n */\npublic inline fun String.trimStart(predicate:
(Char) -> Boolean): String =\n (this as CharSequence).trimStart(predicate).toString()\n/**\n * Returns a sub
sequence of this char sequence having trailing characters matching the [predicate] removed.\n */\npublic inline fun
CharSequence.trimEnd(predicate: (Char) -> Boolean): CharSequence {\n for (index in this.indices.reversed())\n if
(!predicate(this[index]))\n return subSequence(0, index + 1)\n return ""\n}\n/**\n * Returns a string

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having trailing characters matching the [predicate] removed.\n */\npublic inline fun String.trimEnd(predicate: (Char
-> Boolean): String =\n (this as CharSequence).trimEnd(predicate).toString()\n\n/**\n * Returns a sub sequence of
this char sequence having leading and trailing characters from the [chars] array removed.\n */\npublic fun
CharSequence.trim(vararg chars: Char): CharSequence = trim { it in chars }\n\n/**\n * Returns a string having
leading and trailing characters from the [chars] array removed.\n */\npublic fun String.trim(vararg chars: Char):
String = trim { it in chars }\n\n/**\n * Returns a sub sequence of this char sequence having leading characters from
the [chars] array removed.\n */\npublic fun CharSequence.trimStart(vararg chars: Char): CharSequence = trimStart {
it in chars }\n\n/**\n * Returns a string having leading characters from the [chars] array removed.\n */\npublic fun
String.trimStart(vararg chars: Char): String = trimStart { it in chars }\n\n/**\n * Returns a sub sequence of this char
sequence having trailing characters from the [chars] array removed.\n */\npublic fun CharSequence.trimEnd(vararg
chars: Char): CharSequence = trimEnd { it in chars }\n\n/**\n * Returns a string having trailing characters from the
[chars] array removed.\n */\npublic fun String.trimEnd(vararg chars: Char): String = trimEnd { it in chars }\n\n/**
 * Returns a sub sequence of this char sequence having leading and trailing whitespace removed.\n */\npublic fun
CharSequence.trim(): CharSequence = trim(Char::isWhitespace)\n\n/**\n * Returns a string having leading and
trailing whitespace removed.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.trim(): String = (this as
CharSequence).trim().toString()\n\n/**\n * Returns a sub sequence of this char sequence having leading whitespace
removed.\n */\npublic fun CharSequence.trimStart(): CharSequence = trimStart(Char::isWhitespace)\n\n/**\n *
Returns a string having leading whitespace removed.\n */\n@kotlin.internal.InlineOnly\npublic inline fun
String.trimStart(): String = (this as CharSequence).trimStart().toString()\n\n/**\n * Returns a sub sequence of this
char sequence having trailing whitespace removed.\n */\npublic fun CharSequence.trimEnd(): CharSequence =
trimEnd(Char::isWhitespace)\n\n/**\n * Returns a string having trailing whitespace removed.\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun String.trimEnd(): String = (this as
CharSequence).trimEnd().toString()\n\n/**\n * Returns a char sequence with content of this char sequence padded at
the beginning\n * to the specified [length] with the specified character or space.\n * @param length the desired
string length.\n * @param padChar the character to pad string with, if it has length less than the [length] specified.
Space is used by default.\n * @return Returns a char sequence of length at least [length] consisting of `this` char
sequence prepended with [padChar] as many times\n * as are necessary to reach that length.\n * @sample
samples.text.Strings.padStart\n */\npublic fun CharSequence.padStart(length: Int, padChar: Char = ' '):
CharSequence {\n if (length < 0)\n throw IllegalArgumentException("Desired length $length is less than
zero.")\n if (length <= this.length)\n return this.subSequence(0, this.length)\n\n val sb =
StringBuilder(length)\n for (i in 1..(length - this.length))\n sb.append(padChar)\n sb.append(this)\n return
sb\n}\n\n/**\n * Pads the string to the specified [length] at the beginning with the specified character or space.\n *
*/\n * @param length the desired string length.\n * @param padChar the character to pad string with, if it has length less
than the [length] specified. Space is used by default.\n * @return Returns a string of length at least [length]
consisting of `this` string prepended with [padChar] as many times\n * as are necessary to reach that length.\n *
*/\n * @sample samples.text.Strings.padStart\n */\npublic fun String.padStart(length: Int, padChar: Char = ' '): String =\n (this as CharSequence).padStart(length, padChar).toString()\n\n/**\n * Returns a char sequence with content of this
char sequence padded at the end\n * to the specified [length] with the specified character or space.\n * @param
length the desired string length.\n * @param padChar the character to pad string with, if it has length less than the
[length] specified. Space is used by default.\n * @return Returns a char sequence of length at least [length]
consisting of `this` char sequence appended with [padChar] as many times\n * as are necessary to reach that
length.\n * @sample samples.text.Strings.padEnd\n */\npublic fun CharSequence.padEnd(length: Int, padChar: Char
= ' '): CharSequence {\n if (length < 0)\n throw IllegalArgumentException("Desired length $length is less
than zero.")\n if (length <= this.length)\n return this.subSequence(0, this.length)\n\n val sb =
StringBuilder(length)\n sb.append(this)\n for (i in 1..(length - this.length))\n sb.append(padChar)\n return
sb\n}\n\n/**\n * Pads the string to the specified [length] at the end with the specified character or space.\n *
*/\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]

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consisting of `this` string appended with [padChar] as many times as are necessary to reach that length.

```

@sample samples.text.Strings.padEnd
*/\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.stringIsNullOrEmpty\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence?.isNullOrEmpty(): Boolean {\n
contract {\n
returns(false) implies (this@isNullOrEmpty != null)\n
}\n\n
return this == null || this.length == 0\n}\n\n*/\n
* Returns `true` if this char sequence is empty (contains no characters).\n
*/\n
@sample samples.text.Strings.stringIsEmpty\n
/\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isEmpty(): Boolean = length == 0\n\n/\n
* Returns `true` if this char sequence is not empty.\n
*/\n
@sample samples.text.Strings.stringIsNotEmpty\n
/\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isNotEmpty(): Boolean = length > 0\n\n// implemented differently in JVM and JS\n//\npublic fun String.isBlank(): Boolean = length() == 0 || all { it.isWhitespace() }\n\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@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isNotBlank(): Boolean = !isBlank()\n\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.stringOrNullOrBlank\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence?.isNullOrBlank(): Boolean {\n
contract {\n
returns(false) implies (this@isNullOrBlank != null)\n
}\n\n
return this == null || this.isBlank()\n}\n\n\n*/\n
* Iterator for characters of the given char sequence.\n
*/\n\npublic operator fun CharSequence.iterator(): CharIterator = object : CharIterator() {\n
private var index = 0\n\n
public override fun nextChar(): Char = get(index++)\n\n
public override fun hasNext(): Boolean = index < length\n}\n\n\n*/\n
* Returns the string if it is not `null`, or the empty string otherwise.\n
/\n\n@kotlin.internal.InlineOnly\npublic inline fun String?.orEmpty(): String = this ?: ""\n\n\n/\n
* Returns this char sequence if it's not empty or the result of calling [defaultValue] function if the char sequence is empty.\n
*/\n
@sample samples.text.Strings.stringIfEmpty\n
*/\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : CharSequence, C : R =\n
if (isEmpty()) defaultValue() else this\n\n\n*/\n
* Returns this char sequence if it is not empty and doesn't consist solely of whitespace characters, or the result of calling [defaultValue] function otherwise.\n
*/\n
@sample samples.text.Strings.stringIfNotBlank\n
*/\n\n@SinceKotlin("1.3")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifBlank(defaultValue: () -> R): R where C : CharSequence, C : R =\n
if (isBlank()) defaultValue() else this\n\n\n*/\n
* Returns the range of valid character indices for this char sequence.\n
*/\n\npublic val CharSequence.indices: IntRange\n
get() = 0..length - 1\n\n\n*/\n
* Returns the index of the last character in the char sequence or -1 if it is empty.\n
*/\n\npublic val CharSequence.lastIndex: Int\n
get() = this.length - 1\n\n\n*/\n
* Returns `true` if this CharSequence has Unicode surrogate pair at the specified [index].\n
*/\n\npublic fun CharSequence.hasSurrogatePairAt(index: Int): Boolean {\n
return index in 0..length - 2\n
&& this[index].isHighSurrogate()\n
&& this[index + 1].isLowSurrogate()\n}\n\n\n*/\n
* Returns a substring specified by the given [range] of indices.\n
/\n\npublic fun String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)\n\n\n/\n
* Returns a subsequence of this char sequence specified by the given [range] of indices.\n
/\n\npublic fun CharSequence.subSequence(range: IntRange): CharSequence = subSequence(range.start, range.endInclusive + 1)\n\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\n@kotlin.internal.InlineOnly\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER") // false warning\n@Deprecated("Use parameters named startIndex and endIndex.", ReplaceWith("subSequence(startIndex = start, endIndex = end)"))\npublic inline fun String.subSequence(start: Int, end: Int): CharSequence = subSequence(start, end)\n\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

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*^@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 */\n
public fun String.substringAfterLast(delimiter: String, missingDelimiterValue: String = this): String {\n val
index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else substring(index +
delimiter.length, length)\n}\n\n/**\n * Returns a char sequence with content of this char sequence where its part at
the given range\n * is replaced with the [replacement] char sequence.\n * @param startIndex the index of the first
character to be replaced.\n * @param endIndex the index of the first character after the replacement to keep in the
string.\n */\npublic fun CharSequence.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence):
CharSequence {\n if (endIndex < startIndex)\n throw IndexOutOfBoundsException("\nEnd 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 * 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 \n public 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 @kotlin.internal.InlineOnly \n public 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 \* \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 \n public 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 \* \n @kotlin.internal.InlineOnly \n public 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 \n public 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 \* \n @kotlin.internal.InlineOnly \n public 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 \* \n @kotlin.internal.InlineOnly \n public fun String.removePrefix(prefix: CharSequence): String { \n if (startsWith(prefix)) \n return substring(prefix.length) \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 \* \n @kotlin.internal.InlineOnly \n public fun CharSequence.removeSuffix(suffix: CharSequence): CharSequence { \n if (endsWith(suffix)) \n return subSequence(0, length - suffix.length) \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 \* \n @kotlin.internal.InlineOnly \n public fun String.removeSuffix(suffix: CharSequence): String { \n if (endsWith(suffix)) \n return substring(0, length - suffix.length) \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 same characters. \n \* \n @kotlin.internal.InlineOnly \n public 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 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 \* \n @kotlin.internal.InlineOnly \n public 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 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 \* \n @kotlin.internal.InlineOnly \n public 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 \* \n @kotlin.internal.InlineOnly \n public 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)
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 * 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

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*\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 a copy of this string having its first
character replaced with the result of the specified [transform],\n * or the original string if it's empty.\n * \n * @param
transform function that takes the first character and returns the result of the transform applied to the character.\n * \n
* @sample samples.text.Strings.replaceFirstChar\n
*^\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@OptIn(kotlin.experimental.Exper
imentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@JvmName("replaceFirstCharWithC
har")\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceFirstChar(transform: (Char) -> Char): String {\n
return if (isEmpty()) transform(this[0]) + substring(1) else this\n}\n\n/**\n * Returns a copy of this string
having its first character replaced with the result of the specified [transform],\n * or the original string if it's empty.\n
*\n * @param transform function that takes the first character and returns the result of the transform applied to the
character.\n * \n * @sample samples.text.Strings.replaceFirstChar\n
*^\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class)\n@OptIn(kotlin.experimental.Exper
imentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@JvmName("replaceFirstCharWithC
harSequence")\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceFirstChar(transform: (Char) ->
CharSequence): String {\n return if (isEmpty()) transform(this[0]).toString() + substring(1) else
this\n}\n\n/**\n * Returns `true` if this char sequence matches the given regular expression.\n
*\n * @param regex regular expression to match against.\n * \n * @sample samples.text.Strings.matches\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 *^\ninternal fun
CharSequence.regionMatchesImpl(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase:
Boolean): Boolean {\n if ((otherOffset < 0) || (thisOffset < 0) || (thisOffset > this.length - length) || (otherOffset >
other.length - length)) {\n return false\n }\n for (index in 0 until length) {\n if (!this[thisOffset +
index].equals(other[otherOffset + index], ignoreCase))\n return false\n } return true\n}\n\n/**\n *
Returns `true` if this char sequence starts with the specified character.\n *^\npublic fun
CharSequence.startsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n this.length > 0 &&
this[0].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence ends with the specified character.\n
*\n * @param char character to match against.\n * \n * @sample samples.text.Strings.endsWith\n
*^\npublic fun CharSequence.endsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n this.length > 0 &&
this[lastIndex].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence starts with the specified
prefix.\n *^\npublic fun CharSequence.startsWith(prefix: CharSequence, ignoreCase: Boolean = false): Boolean {\n
if (!ignoreCase && this is String && prefix is String)\n return this.startsWith(prefix)\n else\n return
regionMatchesImpl(0, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if a substring of this char
sequence starting at the specified offset [startIndex] starts with the specified prefix.\n *^\npublic fun
CharSequence.startsWith(prefix: CharSequence, startIndex: Int, ignoreCase: Boolean = false): Boolean {\n if
(!ignoreCase && this is String && prefix is String)\n return this.startsWith(prefix, startIndex)\n else\n
return regionMatchesImpl(startIndex, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if this char
sequence ends with the specified suffix.\n *^\npublic fun CharSequence.endsWith(suffix: CharSequence,
ignoreCase: Boolean = false): Boolean {\n if (!ignoreCase && this is String && suffix is String)\n return
this.endsWith(suffix)\n else\n return regionMatchesImpl(length - suffix.length, suffix, 0, suffix.length,
ignoreCase)\n}\n\n// common prefix and suffix\n\n/**\n * Returns the longest string `prefix` such that this char
sequence and [other] char sequence both start with this prefix,\n * taking care not to split surrogate pairs.\n * If this
and [other] have no common prefix, returns the empty string.\n * \n * @param ignoreCase `true` to ignore character
case when matching a character. By default `false`.\n * \n * @sample samples.text.Strings.commonPrefixWith\n
*^\npublic fun CharSequence.commonPrefixWith(other: CharSequence, ignoreCase: Boolean = false): String {\n
val shortestLength = minOf(this.length, other.length)\n var i = 0\n while (i < shortestLength &&
this[i].equals(other[i], ignoreCase = ignoreCase)) {\n i++\n }\n if (this.hasSurrogatePairAt(i - 1) ||
other.hasSurrogatePairAt(i - 1)) {\n i--\n }\n return subSequence(0, i).toString()\n}\n\n/**\n * Returns the

```

longest string `suffix` such that this char sequence and [other] char sequence both end with this suffix,\n \* taking care not to split surrogate pairs.\n \* If this and [other] have no common suffix, returns the empty string.\n\n \* @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n \* @sample samples.text.Strings.commonSuffixWith\n \*/\npublic fun CharSequence.commonSuffixWith(other: CharSequence, ignoreCase: Boolean = false): String {\n val thisLength = this.length\n val otherLength = other.length\n val shortestLength = minOf(thisLength, otherLength)\n\n var i = 0\n while (i < shortestLength && this[thisLength - i - 1].equals(other[otherLength - i - 1], ignoreCase = ignoreCase)) {\n i++\n }\n if (this.hasSurrogatePairAt(thisLength - i - 1) || other.hasSurrogatePairAt(otherLength - i - 1)) {\n i--\n }\n return subSequence(thisLength - i, thisLength).toString()\n}\n\n// indexOfAny()\n\n/\*\*\n \* Finds the index of the first occurrence of any of the specified [chars] in this char sequence,\n \* starting from the specified [startIndex] and optionally ignoring the case.\n \* @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n \* @return An index of the first occurrence of matched character from [chars] or -1 if none of [chars] are found.\n \*/\n\npublic fun CharSequence.indexOfAny(chars: CharArray, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n if (!ignoreCase && chars.size == 1 && this is String) {\n val char = chars.single()\n return nativeIndexOf(char, startIndex)\n }\n\n for (index in startIndex.coerceAtLeast(0)..lastIndex) {\n val charAtIndex = get(index)\n if (chars.any { it.equals(charAtIndex, ignoreCase) })\n return index\n }\n return -1\n}\n\n/\*\*\n \* Finds the index of the last occurrence of any of the specified [chars] in this char sequence,\n \* starting from the specified [startIndex] and optionally ignoring the case.\n \* @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n \* @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n \* @return An index of the last occurrence of matched character from [chars] or -1 if none of [chars] are found.\n \*/\n\npublic fun CharSequence.lastIndexOfAny(chars: CharArray, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n if (!ignoreCase && chars.size == 1 && this is String) {\n val char = chars.single()\n return nativeLastIndexOf(char, startIndex)\n }\n\n for (index in startIndex.coerceAtMost(lastIndex) downTo 0) {\n val charAtIndex = get(index)\n if (chars.any { it.equals(charAtIndex, ignoreCase) })\n return index\n }\n return -1\n}\n\nprivate fun CharSequence.indexOf(other: CharSequence, startIndex: Int, endIndex: Int, ignoreCase: Boolean, last: Boolean = false): Int {\n val indices = if (!last)\n startIndex.coerceAtLeast(0)..endIndex.coerceAtMost(length)\n else\n startIndex.coerceAtMost(lastIndex) downTo endIndex.coerceAtLeast(0)\n\n if (this is String && other is String) { // smart cast\n for (index in indices) {\n if (other.regionMatches(0, this, index, other.length, ignoreCase))\n return index\n }\n } else {\n for (index in indices) {\n if (other.regionMatchesImpl(0, this, index, other.length, ignoreCase))\n return index\n }\n }\n return -1\n}\n\nprivate fun CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int, ignoreCase: Boolean, last: Boolean): Pair<Int, String>? {\n if (!ignoreCase && strings.size == 1) {\n val string = strings.single()\n val index = if (!last) indexOf(string, startIndex) else lastIndexOf(string, startIndex)\n return if (index < 0) null else index to string\n }\n\n val indices = if (!last)\n startIndex.coerceAtLeast(0)..length else startIndex.coerceAtMost(lastIndex) downTo 0\n\n if (this is String) {\n for (index in indices) {\n val matchingString = strings.firstOrNull { it.regionMatches(0, this, index, it.length, ignoreCase) }\n if (matchingString != null)\n return index to matchingString\n }\n } else {\n for (index in indices) {\n val matchingString = strings.firstOrNull { it.regionMatchesImpl(0, this, index, it.length, ignoreCase) }\n if (matchingString != null)\n return index to matchingString\n }\n }\n\n return null\n}\n\n/\*\*\n \* Finds the first occurrence of any of the specified [strings] in this char sequence,\n \* starting from the specified [startIndex] and optionally ignoring the case.\n \* @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n \* @return A pair of an index of the first occurrence of matched string from [strings] and the string matched\n \* or `null` if none of [strings] are found.\n \* @ To avoid ambiguous results when strings in [strings] 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 [strings]\n \* that matches this string at that position.\n \*/\n\npublic fun CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Pair<Int, String>? =\n findAnyOf(strings, startIndex, ignoreCase, last =

`false)`  
`\n\n/**\n * Finds the last occurrence of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n *\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n *\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n *\n * @return A pair of an index of the last occurrence of matched string from [strings] and the string matched or `null` if none of [strings] are found.\n *\n * To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\n * the end toward the beginning of this string, and finds at each position the first element in [strings]\n * that matches this string at that position.\n */\npublic fun CharSequence.findLastAnyOf(strings: Collection<String>, startIndex: Int = lastIndexOfAny(strings, startIndex, ignoreCase, last = true): Pair<Int, String>? =\n findAnyOf(strings, startIndex, ignoreCase, last = true))\n\n/**\n * Finds the index of the first occurrence of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n *\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n *\n * @return An index of the first occurrence of matched string from [strings] or -1 if none of [strings] are found.\n *\n * To avoid ambiguous results when strings in [strings] 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 [strings]\n * that matches this string at that position.\n */\npublic fun CharSequence.indexOfAny(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Int =\n findAnyOf(strings, startIndex, ignoreCase, last = false)?.first ?: -1\n\n/**\n * Finds the index of the last occurrence of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n *\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n *\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n *\n * @return An index of the last occurrence of matched string from [strings] or -1 if none of [strings] are found.\n *\n * To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\n * the end toward the beginning of this string, and finds at each position the first element in [strings]\n * that matches this string at that position.\n */\npublic fun CharSequence.lastIndexOfAny(strings: Collection<String>, startIndex: Int = lastIndexOfAny(strings, startIndex, ignoreCase, last = true): Int =\n findAnyOf(strings, startIndex, ignoreCase, last = true)?.first ?: -1\n\n// indexOf\n\n/**\n * Returns the index within this string of the first occurrence of the specified character, starting from the specified [startIndex].\n *\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n *\n * @return An index of the first occurrence of [char] or -1 if none is found.\n */\npublic fun CharSequence.indexOf(char: Char, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n return if (ignoreCase || this !is String)\n indexOfAny(charArrayOf(char), startIndex, ignoreCase)\n else\n nativeIndexOf(char, startIndex)\n}\n\n/**\n * Returns the index within this char sequence of the first occurrence of the specified [string],\n * starting from the specified [startIndex].\n *\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n *\n * @return An index of the first occurrence of [string] or -1 if none is found.\n */\npublic fun CharSequence.indexOf(string: String, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n return if (ignoreCase || this !is String)\n indexOfAny(charArrayOf(string), startIndex, ignoreCase)\n else\n nativeIndexOf(string, startIndex)\n}\n\n/**\n * Returns the index within this char sequence of the last occurrence of the specified character,\n * starting from the specified [startIndex].\n *\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n *\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n *\n * @return An index of the last occurrence of [char] or -1 if none is found.\n */\npublic fun CharSequence.lastIndexOf(char: Char, startIndex: Int = lastIndexOfAny(charArrayOf(char), startIndex, ignoreCase)\n else\n nativeLastIndexOf(char, startIndex)\n}\n\n/**\n * Returns the index within this char sequence of the last occurrence of the specified [string],\n * starting from the specified [startIndex].\n *\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n *\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n *\n * @return An index of the last occurrence of [string] or -1 if none is found.\n */\npublic fun CharSequence.lastIndexOf(string: String,`

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startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {
 return if (ignoreCase || this !is String)
 indexOf(string, startIndex, 0, ignoreCase, last = true)
 else
 nativeLastIndexOf(string,
 startIndex)
}

/** Returns `true` if this char sequence contains the specified [other] sequence of characters as a substring.
 * @param ignoreCase `true` to ignore character case when comparing strings. By default `false`.
 */
@Suppress("INAPPLICABLE_OPERATOR_MODIFIER")
public operator fun CharSequence.contains(other: CharSequence, ignoreCase: Boolean = false): Boolean =
 if (other is String)
 indexOf(other, ignoreCase = ignoreCase) >= 0
 else
 indexOf(other, 0, length, ignoreCase) >= 0

/** Returns `true` if this char sequence contains the specified character [char].
 * @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.
 */
@Suppress("INAPPLICABLE_OPERATOR_MODIFIER")
public operator fun CharSequence.contains(char: Char, ignoreCase: Boolean = false): Boolean =
 indexOf(char, ignoreCase = ignoreCase) >= 0

/** Returns `true` if this char sequence contains at least one match of the specified regular expression [regex].
 */
@kotlin.internal.InlineOnly
public inline operator fun CharSequence.contains(regex: Regex): Boolean =
 regex.containsMatchIn(this)

// rangesDelimitedBy
private class DelimitedRangesSequence(
 private val input: CharSequence,
 private val startIndex: Int,
 private val limit: Int,
 private val getNextMatch: CharSequence.(current: Int) -> Pair<Int, Int>? : Sequence<IntRange> {
 override fun iterator(): Iterator<IntRange> = object : Iterator<IntRange> {
 var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue
 var currentStartIndex: Int = startIndex.coerceIn(0, input.length)
 var nextSearchIndex: Int = currentStartIndex
 var nextItem: IntRange? = null
 var counter: Int = 0
 private fun calcNext() {
 if (nextSearchIndex < 0) {
 nextState = 0
 nextItem = null
 } else {
 if (limit > 0 && ++counter >= limit || nextSearchIndex > input.length) {
 nextItem = currentStartIndex..input.lastIndex
 nextSearchIndex = -1
 } else {
 val match = input.getNextMatch(nextSearchIndex)
 if (match == null) {
 nextItem = currentStartIndex..input.lastIndex
 nextSearchIndex = -1
 } else {
 val (index, length) = match
 nextItem = currentStartIndex until index
 currentStartIndex = index + length
 nextSearchIndex = currentStartIndex + if (length == 0) 1 else 0
 }
 }
 }
 nextState = 1
 }
 override fun next(): IntRange {
 if (nextState == -1)
 calcNext()
 if (nextState == 0)
 throw NoSuchElementException()
 val result = nextItem as IntRange
 // Clean next to avoid keeping reference on yielded instance
 nextItem = null
 nextState = -1
 return result
 }
 override fun hasNext(): Boolean {
 if (nextState == -1)
 calcNext()
 return nextState == 1
 }
 }
 }

/** Returns a sequence of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].
 * @param delimiters One or more characters to be used as delimiters.
 * @param startIndex The index to start searching delimiters from. No range having its start value less than [startIndex] is returned. [startIndex] is coerced to be non-negative and not greater than length of this string.
 * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 * @param limit The maximum number of substrings to return. Zero by default means no limit is set.
 */
private fun CharSequence.rangesDelimitedBy(delimiters: CharArray, startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {
 requireNonNegativeLimit(limit)
 return DelimitedRangesSequence(this, startIndex, limit, { current: Int ->
 indexOfAny(delimiters, current, ignoreCase = ignoreCase).let { if (it < 0) null else it to 1 }
 })

/** Returns a sequence of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].
 * @param delimiters One or more strings to be used as delimiters.
 * @param startIndex The index to start searching delimiters from. No range having its start value less than [startIndex] is returned. [startIndex] is coerced to be non-negative and not greater than length of this string.
 * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 * @param limit The maximum number of substrings to return. Zero by default means no limit is set.
 * @param To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from the beginning to the end of this string, and finds at each position the first element in [delimiters] that matches this string at that position.
 */

```

```

*private fun CharSequence.rangesDelimitedBy(delimiters: Array<out String>, startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {
 requireNonNegativeLimit(limit)
 val delimitersList = delimiters.asList()
 return DelimitedRangesSequence(this, startIndex, limit, {
 currentIndex -> findAnyOf(delimitersList, currentIndex, ignoreCase = ignoreCase, last = false)?.let { it.first to it.second.length }
 })
}

internal fun requireNonNegativeLimit(limit: Int) = require(limit >= 0) { "Limit must be non-negative, but was $limit" }

// split
/**
 * Splits this char sequence to a sequence of strings around occurrences of the specified [delimiters].
 * @param delimiters One or more strings to be used as delimiters.
 * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 * @param limit The maximum number of substrings to return. Zero by default means no limit is set.
 * To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from the beginning to the end of this string, and finds at each position the first element in [delimiters] that matches this string at that position.
 */
public fun CharSequence.splitToSequence(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> =
 rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it) }

/**
 * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].
 * @param delimiters One or more strings to be used as delimiters.
 * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 * @param limit The maximum number of substrings to return. Zero by default means no limit is set.
 * To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from the beginning to the end of this string, and matches at each position the first element in [delimiters] that is equal to a delimiter in this instance at that position.
 */
public fun CharSequence.split(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): List<String> {
 if (delimiters.size == 1) {
 val delimiter = delimiters[0]
 if (!delimiter.isEmpty())
 return split(delimiter, ignoreCase, limit)
 }
 return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }
}

/**
 * Splits this char sequence to a sequence of strings around occurrences of the specified [delimiters].
 * @param delimiters One or more characters to be used as delimiters.
 * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 * @param limit The maximum number of substrings to return.
 */
public fun CharSequence.splitToSequence(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> =
 rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it) }

/**
 * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].
 * @param delimiters One or more characters to be used as delimiters.
 * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 * @param limit The maximum number of substrings to return.
 */
public fun CharSequence.split(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): List<String> {
 if (delimiters.size == 1) {
 return split(delimiters[0].toString(), ignoreCase, limit)
 }
 return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }
}

/**
 * Splits this char sequence to a list of strings around occurrences of the specified [delimiter].
 * This is specialized version of split which receives single non-empty delimiter and offers better performance.
 * @param delimiter String used as delimiter.
 * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.
 * @param limit The maximum number of substrings to return.
 */
private fun CharSequence.split(delimiter: String, ignoreCase: Boolean, limit: Int): List<String> {
 requireNonNegativeLimit(limit)
 var currentOffset = 0
 var nextIndex = indexOf(delimiter, currentOffset, ignoreCase)
 if (nextIndex == -1 || limit == 1)
 return listOf(this.toString())
 val isLimited = limit > 0
 val result = ArrayList<String>(if (isLimited) limit.coerceAtMost(10) else 10)
 do {
 result.add(substring(currentOffset, nextIndex))
 currentOffset = nextIndex + delimiter.length // Do not search for next occurrence if we're reaching limit
 if (isLimited && result.size == limit - 1) break
 nextIndex = indexOf(delimiter, currentOffset, ignoreCase)
 } while (nextIndex != -1)
 result.add(substring(currentOffset, length))
 return result
}

/**
 * Splits this char sequence to a list of strings around matches of the given regular expression.
 * @param limit Non-negative value specifying the maximum number of substrings to return.
 * Zero by default means no limit is set.
 */

```

```

*\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 strings around matches of the given
regular expression.\n *\n * @param limit Non-negative value specifying the maximum number of substrings to
return.\n *\n * Zero by default means no limit is set.\n *\n * @sample samples.text.Strings.splitToSequence\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
c inline fun CharSequence.splitToSequence(regex: Regex, limit: Int = 0): Sequence<String> =
regex.splitToSequence(this, limit)\n\n/**\n * Splits this char sequence to a sequence 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.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 * Returns `true` if the contents of this char
sequence are equal to the contents of the specified [other],\n *\n * i.e. both char sequences contain the same number of
the same characters in the same order.\n *\n * @sample samples.text.Strings.contentEquals\n
*\n@SinceKotlin("1.5")\npublic expect infix fun CharSequence?.contentEquals(other: CharSequence?):
Boolean\n\n/**\n * Returns `true` if the contents of this char sequence are equal to the contents of the specified
[other], optionally ignoring case difference.\n *\n * @param ignoreCase `true` to ignore character case when
comparing contents.\n *\n * @sample samples.text.Strings.contentEquals\n *\n@SinceKotlin("1.5")\npublic
expect fun CharSequence?.contentEquals(other: CharSequence?, ignoreCase: Boolean): Boolean\n\ninternal fun
CharSequence?.contentEqualsIgnoreCaseImpl(other: CharSequence?): Boolean {\n if (this is String && other is
String) {\n return this.equals(other, ignoreCase = true)\n }\n if (this === other) return true\n if (this ==
null || other == null || this.length != other.length) return false\n for (i in 0 until length) {\n if
(!this[i].equals(other[i], ignoreCase = true)) {\n return false\n }\n }\n return true\n}\n\ninternal fun
CharSequence?.contentEqualsImpl(other: CharSequence?): Boolean {\n if (this is String && other is String) {\n
 return this == other\n }\n if (this === other) return true\n if (this == null || other == null || this.length !=
other.length) return false\n for (i in 0 until length) {\n if (this[i] != other[i]) {\n return false\n
 }\n }\n return true\n}\n\n/**\n * Returns `true` if the content of this string is equal to the word `true`, `false` if it is
equal to `false`,\n *\n * and throws an exception otherwise.\n *\n * There is also a lenient version of the function
available on nullable String, [String?.toBoolean].\n *\n * Note that this function is case-sensitive.\n *\n * @sample
samples.text.Strings.toBooleanStrict\n *\n@SinceKotlin("1.5")\npublic fun String.toBooleanStrict(): Boolean =
when (this) {\n "true" -> true\n "false" -> false\n else -> throw IllegalArgumentException("The string
doesn't represent a boolean value: $this")\n}\n\n/**\n * Returns `true` if the content of this string is equal to the
word `true`, `false` if it is equal to `false`,\n *\n * and `null` otherwise.\n *\n * There is also a lenient version of the
function available on nullable String, [String?.toBoolean].\n *\n * Note that this function is case-sensitive.\n *\n *
@sample samples.text.Strings.toBooleanStrictOrNull\n *\n@SinceKotlin("1.5")\npublic fun
String.toBooleanStrictOrNull(): Boolean? = when (this) {\n "true" -> true\n "false" -> false\n else ->
null\n},"/**\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n@n//
Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport
kotlin.jvm.*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic value class
UByteArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: ByteArray) :
Collection<UByte> {\n /** Creates a new array of the specified [size], with all elements initialized to zero. *\n
public constructor(size: Int) : this(ByteArray(size))\n /**\n * Returns the array element at the given [index].
This method can be called using the index operator.\n *\n * If the [index] is out of bounds of this array, throws
an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n *\n public
operator fun get(index: Int): UByte = storage[index].toUByte()\n /**\n * Sets the element at the given [index]
to the given [value]. This method can be called using the index operator.\n *\n * If the [index] is out of bounds
of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is

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unspecified.\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():\n kotlin.collections.Iterator<UByte> = Iterator(storage)\n\n @Suppress("DEPRECATION_ERROR")\n private\n class Iterator(private val array: ByteArray) : UByteIterator() {\n private var index = 0\n override fun\n hasNext() = index < array.size\n override fun nextUByte() = if (index < array.size) array[index++].toUByte()\n else throw NoSuchElementException(index.toString())\n }\n\n override fun contains(element: UByte): Boolean\n {\n // TODO: Eliminate this check after KT-30016 gets fixed.\n // Currently JS BE does not generate\n special bridge method for this method.\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is\n UByte) return false\n\n return storage.contains(element.toByte())\n }\n\n override fun containsAll(elements:\n Collection<UByte>): Boolean {\n return (elements as Collection<*>).all { it is UByte &&\n storage.contains(it.toByte()) }\n }\n\n override fun isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n * Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init]\n * function.\n * The function [init] is called for each array element sequentially starting from the first one.\n * It\n * should return the value for an array element given its index.\n *\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline fun\n * UByteArray(size: Int, init: (Int) -> UByte): UByteArray {\n * return UByteArray(ByteArray(size) { index ->\n * init(index).toByte()\n * })\n * }\n\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline fun\n * ubyteArrayOf(vararg elements: UByte): UByteArray = elements\n * , "/*\n * Copyright 2010-2022 JetBrains s.r.o. and\n * Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that\n * can be found in the license/LICENSE.txt file.\n * ^\n * // Auto-generated file. DO NOT EDIT!\n * package\n * kotlin\n * \n * import kotlin.jvm.*\n * \n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @JvmInline\n * public\n * value class UIntArray\n * @PublishedApi\n * internal constructor(@PublishedApi internal val storage: IntArray) :\n * Collection<UInt> {\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 * * Returns the array element at the given [index].\n * This method can be called using the index operator.\n * * If the [index] is out of bounds of this array, throws\n * an [IndexOutOfBoundsException] except in Kotlin/JS\n * * where the behavior is unspecified.\n * */\n * public\n * operator fun get(index: Int): UInt = storage[index].toInt()\n * /**\n * * Sets the element at the given [index] to\n * the given [value]. This method can be called using the index operator.\n * * If the [index] is out of bounds of\n * this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * * where the behavior is unspecified.\n * */\n * public\n * operator fun set(index: Int, value: UInt) {\n * storage[index] = value.toInt()\n * }\n * /** Returns\n * the number of elements in the array. */\n * public override val size: Int get() = storage.size\n * /** Creates an\n * iterator over the elements of the array. */\n * public override operator fun iterator(): kotlin.collections.Iterator<UInt>\n * = Iterator(storage)\n * @Suppress("DEPRECATION_ERROR")\n * private class Iterator(private val array:\n * IntArray) : UIntIterator() {\n * private var index = 0\n * override fun hasNext() = index < array.size\n * override fun nextUInt() = if (index < array.size) array[index++].toInt()\n * else throw\n * NoSuchElementException(index.toString())\n * }\n * override fun contains(element: UInt): Boolean {\n * //\n * TODO: Eliminate this check after KT-30016 gets fixed.\n * // Currently JS BE does not generate special bridge\n * method for this method.\n * @Suppress("USELESS_CAST")\n * if ((element as Any?) !is UInt) return\n * false\n * return storage.contains(element.toInt())\n * }\n * override fun containsAll(elements:\n * Collection<UInt>): Boolean {\n * return (elements as Collection<*>).all { it is UInt &&\n * storage.contains(it.toInt()) }\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]\n * function.\n * The function [init] is called for each array element sequentially starting from the first one.\n * It\n * should return the value for an array element given its index.\n *\n * @SinceKotlin("1.3")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public inline fun\n * UIntArray(size: Int, init: (Int) -> UInt): UIntArray {\n * return UIntArray(IntArray(size) { index ->

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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 2010-2022 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\nimport kotlin.jvm.*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic
value class ULongArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: LongArray) :
Collection<ULong> {\n\n /** Creates a new array of the specified [size], with all elements initialized to zero. */\n
 public constructor(size: Int) : this(LongArray(size))\n\n /**\n * Returns the array element at the given [index].
This method can be called using the index operator.\n *\n * If the [index] is out of bounds of this array, throws
an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n public
operator fun get(index: Int): ULong = storage[index].toULong()\n\n /**\n * Sets the element at the given
[index] to the given [value]. This method can be called using the index operator.\n *\n * If the [index] is out of
bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is
unspecified.\n */\n public operator fun set(index: Int, value: ULong) {\n storage[index] = value.toLong()\n
 }\n\n /** Returns the number of elements in the array. */\n public override val size: Int get() = storage.size\n\n
 /** Creates an iterator over the elements of the array. */\n public override operator fun iterator():
kotlin.collections.Iterator<ULong> = Iterator(storage)\n\n @Suppress("DEPRECATION_ERROR")\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()\n
 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 @Suppress("USELESS_CAST")\n if ((element as Any?) !is
ULong) return false\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/**\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 2010-2022 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin\n\nimport kotlin.jvm.*\n\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@JvmInline\npublic
value class UShortArray\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: ShortArray) :
Collection<UShort> {\n\n /** Creates a new array of the specified [size], with all elements initialized to zero. */\n
 public constructor(size: Int) : this(ShortArray(size))\n\n /**\n * Returns the array element at the given [index].
This method can be called using the index operator.\n *\n * If the [index] is out of bounds of this array, throws
an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n public
operator fun get(index: Int): UShort = storage[index].toUShort()\n\n /**\n * Sets the element at the given
[index] to the given [value]. This method can be called using the index operator.\n *\n * If the [index] is out of
bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is
unspecified.\n */\n public operator fun set(index: Int, value: UShort) {\n storage[index] = value.toShort()\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():

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kotlin.collections.Iterator<UShort> = Iterator(storage)\n @Suppress(\"DEPRECATION_ERROR\")\n private
class Iterator(private val array: ShortArray) : UShortIterator() {\n private var index = 0\n override fun
hasNext() = index < array.size\n override fun nextUShort() = if (index < array.size) array[index++].toUShort()
else throw NoSuchElementException(index.toString())\n }\n\n override fun contains(element: UShort): Boolean
{\n // TODO: Eliminate this check after KT-30016 gets fixed.\n // Currently JS BE does not generate
special bridge method for this method.\n @Suppress(\"USELESS_CAST\")\n if ((element as Any?) !is
UShort) return false\n\n return storage.contains(element.toShort())\n }\n\n override fun
containsAll(elements: Collection<UShort>): Boolean {\n return (elements as Collection<*>).all { it is UShort
&& storage.contains(it.toShort()) }\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
UShortArray(size: Int, init: (Int) -> UShort): UShortArray {\n return UShortArray(ShortArray(size) { index ->
init(index).toShort()
})\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ushortArrayOf(vararg elements: UShort): UShortArray = elements\n\", \"/*\n * Copyright 2010-2021 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n
\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"UArraysKt\")\n@file:kotlin.jvm.JvmPacka
geName(\"kotlin.collections.unsigned\")\n\npackage kotlin.collections\n\n// NOTE: THIS FILE IS AUTO-
GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.*\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the array.\n * \n * If the
size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior
is unspecified.\n
\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline operator fun UIntArray.component1(): UInt {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the
array.\n * \n * If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n
* where the behavior is unspecified.\n
\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.component1(): ULong {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the array.\n * \n *
If the size of this array is less than 1, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.component1(): UByte {\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@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.component1(): UShort {\n return get(0)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n *
If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntArray.component2(): UInt {\n return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n * If
the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n
\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.component2(): ULong {\n return get(1)\n}\n\n/**\n * Returns 2nd *element* from the array.\n * \n *
If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the
behavior is unspecified.\n

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behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UByteArray.component2(): UByte {\n return get(1)\n}\n\n/\*\*\n \* Returns 2nd \*element\* from the array.\n \* \n \*  
If the size of this array is less than 2, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the  
behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UShortArray.component2(): UShort {\n return get(1)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \*  
If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the  
behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UIntArray.component3(): UInt {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \*  
If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the  
behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
ULongArray.component3(): ULong {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \*  
If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the  
behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UByteArray.component3(): UByte {\n return get(2)\n}\n\n/\*\*\n \* Returns 3rd \*element\* from the array.\n \* \n \*  
If the size of this array is less than 3, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the  
behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UShortArray.component3(): UShort {\n return get(2)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \*  
If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the  
behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UIntArray.component4(): UInt {\n return get(3)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \*  
If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior  
is unspecified.\n \*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic  
inline operator fun ULongArray.component4(): ULong {\n return get(3)\n}\n\n/\*\*\n \* Returns 4th \*element\* from  
the array.\n \* \n \*  
If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in  
Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UByteArray.component4(): UByte {\n return get(3)\n}\n\n/\*\*\n \* Returns 4th \*element\* from the array.\n \* \n \*  
If the size of this array is less than 4, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the  
behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UShortArray.component4(): UShort {\n return get(3)\n}\n\n/\*\*\n \* Returns 5th \*element\* from the array.\n \* \n \*  
If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the  
behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun  
UIntArray.component5(): UInt {\n return get(4)\n}\n\n/\*\*\n \* Returns 5th \*element\* from the array.\n \* \n \*  
If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the behavior  
is unspecified.\n \*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic  
inline operator fun ULongArray.component5(): ULong {\n return get(4)\n}\n\n/\*\*\n \* Returns 5th \*element\* from  
the array.\n \* \n \*  
If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in  
Kotlin/JS\n \* where the behavior is unspecified.\n

\*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun

UByteArray.component5(): UByte { \n return get(4)\n}\n\n/\*\* \n \* Returns 5th \*element\* from the array.\n \* \n \*  
 If the size of this array is less than 5, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n \* where the  
 behavior is unspecified.\n

\* \n @SinceKotlin("1.3") \n @ExperimentalUnsignedTypes \n @kotlin.internal.InlineOnly \n public 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 \n public 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 \n public 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 \n public 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 \n public 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 \n public 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 \n public 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 \n public 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 \n public 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 \n public 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 \n public 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

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*\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 * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.find(predicate: (UInt) -> Boolean): UInt? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the
first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.find(predicate: (ULong) -> Boolean): ULong? {\n return firstOrNull(predicate)\n}\n\n/**\n *
Returns the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.find(predicate: (UByte) -> Boolean): UByte? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns
the first element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.find(predicate: (UShort) -> Boolean): UShort? {\n return firstOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.findLast(predicate: (UInt) -> Boolean): UInt? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the
last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.findLast(predicate: (ULong) -> Boolean): ULong? {\n return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.findLast(predicate: (UByte) -> Boolean): UByte? {\n return lastOrNull(predicate)\n}\n\n/**\n *
Returns the last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.find\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.findLast(predicate: (UShort) -> Boolean): UShort? {\n return lastOrNull(predicate)\n}\n\n/**\n *
Returns 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

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*\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`
if 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.getOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n return if (index >= 0 && index <=

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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.getOrElse(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
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 * @sample samples.collections.Collections.Elements.getOrNull\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 * @sample
samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.getOrNull(index: Int):
ULong? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at
the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.getOrNull(index: Int): UByte?
{\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the
given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample
samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.getOrNull(index: Int):
UShort? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of
[element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOf(element: UInt): Int {\n return storage.indexOf(element.toInt())\n}\n\n/**\n * Returns first
index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.indexOf(element: ULong): Int {\n return storage.indexOf(element.toLong())\n}\n\n/**\n * Returns
first index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.indexOf(element: UByte): Int {\n return storage.indexOf(element.toByte())\n}\n\n/**\n * Returns
first index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.indexOf(element: UShort): Int {\n return storage.indexOf(element.toShort())\n}\n\n/**\n * Returns
index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOfFirst(predicate: (UInt) -> Boolean): Int {\n return storage.indexOfFirst { predicate(it.toUInt())
}\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 * @sample samples.collections.Collections.Elements.getOrNull\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.indexOfFirst(predicate: (ULong) -> Boolean): Int {\n return storage.indexOfFirst {
predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the
array does not contain such element.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.indexOfFirst(predicate: (UByte) -> Boolean): Int {\n return storage.indexOfFirst {
predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the
array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {\n return storage.indexOfFirst {
predicate(it.toUShort()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the
array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.indexOfLast(predicate: (UInt) -> Boolean): Int {\n return storage.indexOfLast { predicate(it.toUInt())
}\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain
such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.indexOfLast(predicate: (ULong) -> Boolean): Int {\n return storage.indexOfLast {
predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the
array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.indexOfLast(predicate: (UByte) -> Boolean): Int {\n return storage.indexOfLast {
predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the
array does not contain such element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.indexOfLast(predicate: (UShort) -> Boolean): Int {\n return storage.indexOfLast {
predicate(it.toUShort()) }\n}\n\n/**\n * Returns the last element.\n * \n * @throws NoSuchElementException if the
array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.last(): UInt {\n return storage.last().toUInt()\n}\n\n/**\n * Returns the last element.\n * \n * @throws
NoSuchElementException if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.last(): ULong {\n return storage.last().toULong()\n}\n\n/**\n * Returns the last element.\n * \n *
@throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.last(): UByte {\n return storage.last().toUByte()\n}\n\n/**\n * Returns the last element.\n * \n *
@throws NoSuchElementException if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.last(): UShort {\n return storage.last().toUShort()\n}\n\n/**\n * Returns the last element matching
the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.last(predicate: (UInt) -> Boolean): UInt {\n for (index in this.indices.reversed()) {\n val element =
this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException("Array contains
no element matching the predicate.")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * \n *
@throws NoSuchElementException if no such element is found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.last(predicate: (ULong) -> Boolean): ULong {\n for (index in this.indices.reversed()) {\n val
element = this[index]\n if (predicate(element)) return element\n }\n throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last

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element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n
* \n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.last(predicate: (UByte) -> Boolean): UByte {\n for (index in this.indices.reversed()) {\n val
element = this[index]\n if (predicate(element)) return element\n }\n throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns the last
element matching the given [predicate].\n * \n * @throws NoSuchElementException if no such element is found.\n
* \n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.last(predicate: (UShort) -> Boolean): UShort {\n for (index in this.indices.reversed()) {\n val
element = this[index]\n if (predicate(element)) return element\n }\n throw
NoSuchElementException("Array contains no element matching the predicate.")\n}\n\n/**\n * Returns last index
of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.lastIndexOf(element: UInt): Int {\n return storage.lastIndexOf(element.toInt())\n}\n\n/**\n * Returns
last index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.lastIndexOf(element: ULong): Int {\n return storage.lastIndexOf(element.toLong())\n}\n\n/**\n *
Returns last index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.lastIndexOf(element: UByte): Int {\n return storage.lastIndexOf(element.toByte())\n}\n\n/**\n *
Returns last index of [element], or -1 if the array does not contain element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.lastIndexOf(element: UShort): Int {\n return storage.lastIndexOf(element.toShort())\n}\n\n/**\n *
Returns the last element, or `null` if the array is empty.\n * \n * @sample
samples.collections.Collections.Elements.last\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UIntArray.lastOrNull(): UInt? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last
element, or `null` if the array is empty.\n * \n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.lastOrNull(): ULong? {\n
return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n
*\n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.lastOrNull(): UByte? {\n
return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n
*\n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.lastOrNull(): UShort? {\n
return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or
`null` if no such element was found.\n * \n * @sample samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.lastOrNull(predicate: (UInt) -> Boolean): UInt? {\n for (index in this.indices.reversed()) {\n val
element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last
element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.lastOrNull(predicate: (ULong) -> Boolean): ULong? {\n for (index in this.indices.reversed()) {\n
val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the
last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

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ByteArray.lastOrNull(predicate: (UByte) -> Boolean): UByte? {\n for (index in this.indices.reversed()) {\n
val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the
last element matching the given [predicate], or `null` if no such element was found.\n * \n * @sample
samples.collections.Collections.Elements.last\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.lastOrNull(predicate: (UShort) -> Boolean): UShort? {\n for (index in this.indices.reversed()) {\n
val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns a
random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.random(): UInt {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n
* \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.random(): ULong {\n return random(Random)\n}\n\n/**\n * Returns a random element from this
array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.random(): UByte {\n return random(Random)\n}\n\n/**\n * Returns a random element from this
array.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.random(): UShort {\n return random(Random)\n}\n\n/**\n * Returns a random element from this
array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.random(random: Random): UInt
{\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return
get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of
randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.random(random: Random):
ULong {\n if (isEmpty())\n throw NoSuchElementException("Array is empty.")\n return
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("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UIntArray.randomOrNull(): UInt? {\n return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun ULongArray.randomOrNull(): ULong? {\n return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UByteArray.randomOrNull(): UByte? {\n return
randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this array, or `null` if this array is empty.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UShortArray.randomOrNull(): UShort? {\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

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*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun UIntArray.randomOrNull(random: Random): UInt? {\n if (isEmpty())\n return null\n return\n get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of\n randomness, or `null` if this array is empty.\n*/\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun ULongArray.randomOrNull(random: Random): ULong? {\n if (isEmpty())\n return null\n return\n get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of\n randomness, or `null` if this array is empty.\n*/\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun UByteArray.randomOrNull(random: Random): UByte? {\n if (isEmpty())\n return null\n return\n get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of\n randomness, or `null` if this array is empty.\n*/\n*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun UShortArray.randomOrNull(random: Random): UShort? {\n if (isEmpty())\n return null\n return\n get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or\n has more than one element.\n*/\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n UIntArray.single(): UInt {\n return storage.single().toUInt()\n}\n\n/**\n * Returns the single element, or throws an\n exception if the array is empty or has more than one element.\n*/\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n ULongArray.single(): ULong {\n return storage.single().toULong()\n}\n\n/**\n * Returns the single element, or\n throws an exception if the array is empty or has more than one element.\n*/\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n UByteArray.single(): UByte {\n return storage.single().toUByte()\n}\n\n/**\n * Returns the single element, or\n throws an exception if the array is empty or has more than one element.\n*/\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n UShortArray.single(): UShort {\n return storage.single().toUShort()\n}\n\n/**\n * Returns the single element\n matching the given [predicate], or throws exception if there is no or more than one matching element.\n*/\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n 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\n contains more than one matching element.")\n single = element\n found = true\n }\n }\n if\n (!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n @Suppress("UNCHECKED_CAST")\n return single as UInt\n}\n\n/**\n * Returns the single element matching\n the given [predicate], or throws exception if there is no or more than one matching element.\n*/\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n ULongArray.single(predicate: (ULong) -> Boolean): ULong {\n var single: ULong? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException("Array\n contains more than one matching element.")\n single = element\n found = true\n }\n }\n if\n (!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n @Suppress("UNCHECKED_CAST")\n return single as ULong\n}\n\n/**\n * Returns the single element\n matching the given [predicate], or throws exception if there is no or more than one matching element.\n*/\n*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\n UByteArray.single(predicate: (UByte) -> Boolean): UByte {\n var single: UByte? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException("Array\n contains more than one matching element.")\n single = element\n found = true\n }\n }\n if\n (!found) throw NoSuchElementException("Array contains no element matching the predicate.")\n @Suppress("UNCHECKED_CAST")\n return single as UByte\n}\n\n/**\n * Returns the single element

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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
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
element, or `null` if the array is empty or has more than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.singleOrNull(): UByte? {\n
return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more
than one element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {\n return if (size == 1) this[0] else null\n}\n\n/**\n
 * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.singleOrNull(predicate: (UInt) -> Boolean): UInt? {\n var single: UInt? = null\n var found = false\n
for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n
found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element
matching the given [predicate], or `null` if element was not found or more than one element was found.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.singleOrNull(predicate: (ULong) -> Boolean): ULong? {\n var single: ULong? = null\n var found
= false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single =
element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the
single element matching the given [predicate], or `null` if element was not found or more than one element was
found.\n
*\n@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

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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
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

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emptyList()\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 * \n * @sample samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.filter(predicate: (UInt) -> Boolean): List<UInt> {\n return filterTo(ArrayList<UInt>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filter(predicate: (ULong) -> Boolean): List<ULong> {\n return filterTo(ArrayList<ULong>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filter(predicate: (UByte) -> Boolean): List<UByte> {\n return filterTo(ArrayList<UByte>(),
predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@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 * \n * @param
[predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate
evaluation on the element.\n * \n * @sample samples.collections.Collections.Filtering.filterIndexed\n
*\n@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 * \n * @param [predicate] function that takes the index of an element and the element itself\n * and
returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexed\n

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*\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 * @sample
samples.collections.Collections.Filtering.filterIndexed\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 * @sample
samples.collections.Collections.Filtering.filterIndexed\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 * @sample
samples.collections.Collections.Filtering.filterIndexedTo\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 * @sample
samples.collections.Collections.Filtering.filterIndexedTo\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 * @sample
samples.collections.Collections.Filtering.filterIndexedTo\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) ->
Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element))
destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given
[predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the
element itself\n * and returns the result of predicate evaluation on the element.\n * \n * @sample
samples.collections.Collections.Filtering.filterIndexedTo\n
*\n@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 * @sample
samples.collections.Collections.Filtering.filter\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 * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

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ULongArray.filterNot(predicate: (ULong) -> Boolean): List<ULong> {\n return filterNotTo(ArrayList<ULong>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filterNot(predicate: (UByte) -> Boolean): List<UByte> {\n return filterNotTo(ArrayList<UByte>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n * \n * @sample
samples.collections.Collections.Filtering.filter\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.filterNot(predicate: (UShort) -> Boolean): List<UShort> {\n return
filterNotTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements not matching the given [predicate]
to the given [destination].\n * \n * @sample samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterNotTo(destination: C, predicate: (UInt) -> Boolean): C {\n for
(element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in ULong>> ULongArray.filterNotTo(destination: C, predicate: (ULong) -> Boolean): C {\n for
(element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends
all elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterNotTo(destination: C, predicate: (UByte) -> Boolean): C {\n for
(element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterNotTo(destination: C, predicate: (UShort) -> Boolean): C {\n for
(element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends
all elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterTo(destination: C, predicate: (UInt) -> Boolean): C {\n for (element
in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements
matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in ULong>> ULongArray.filterTo(destination: C, predicate: (ULong) -> Boolean): C {\n for
(element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all
elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterTo(destination: C, predicate: (UByte) -> Boolean): C {\n for
(element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all
elements matching the given [predicate] to the given [destination].\n * \n * @sample
samples.collections.Collections.Filtering.filterTo\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterTo(destination: C, predicate: (UShort) -> Boolean): C {\n for

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(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
indices in the specified [indices] range.\n
*\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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun

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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 * \n\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
*\n\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 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
*\n\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 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
*\n\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 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
*\n\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 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
*\n\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
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\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 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\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.takeLast(n: Int): List<UByte>
{\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n val
size = size\n if (n >= size) return toList()\n if (n == 1) return listOf(this[size - 1])\n val list =
ArrayList<UByte>()\n 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

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements of the array in the specified
range in-place.\n * \n * @param fromIndex the start of the range (inclusive) to reverse.\n * @param toIndex the end
of the range (exclusive) to reverse.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero
or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater
than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n storage.reverse(fromIndex,
toIndex)\n}\n\n/**\n * Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex
the start of the range (inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n
* @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n storage.reverse(fromIndex, toIndex)\n}\n\n/**\n *
Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range
(inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n storage.reverse(fromIndex, toIndex)\n}\n\n/**\n *
Reverses elements of the array in the specified range in-place.\n * \n * @param fromIndex the start of the range
(inclusive) to reverse.\n * @param toIndex the end of the range (exclusive) to reverse.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n *
@throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reverse(fromIndex: Int, toIndex: Int): Unit {\n storage.reverse(fromIndex, toIndex)\n}\n\n/**\n *
Returns a list with elements in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UIntArray.reversed(): List<UInt> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n
list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.reversed(): List<UInt> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n
list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.reversed(): List<UByte> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n
list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.reversed(): List<UShort> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n
list.reverse()\n return list\n}\n\n/**\n * Returns
an array with elements of this array in reversed order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reversedArray(): UIntArray {\n return UIntArray(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
UIntArray.reversedArray(): UIntArray {\n return UIntArray(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
UByteArray.reversedArray(): UByteArray {\n return UByteArray(storage.reversedArray())\n}\n\n/**\n * Returns

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an array with elements of this array in reversed order.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.reversedArray(): UShortArray {\n return UShortArray(storage.reversedArray())\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
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```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place.\n
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```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.shuffle(): Unit {\n shuffle(Random)\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified [random]\n instance as the source of randomness.\n * \n * See:
```

[https://en.wikipedia.org/wiki/Fisher%20%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%93Yates_shuffle#The_modern_algorithm)\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.shuffle(random: Random): Unit\n{\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] =\n this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified\n [random] instance as the source of randomness.\n * \n * See:
```

[https://en.wikipedia.org/wiki/Fisher%20%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%93Yates_shuffle#The_modern_algorithm)\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.shuffle(random: Random):\nUnit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] =\n this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified\n [random] instance as the source of randomness.\n * \n * See:
```

[https://en.wikipedia.org/wiki/Fisher%20%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%93Yates_shuffle#The_modern_algorithm)\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.shuffle(random: Random):\nUnit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] =\n this[j]\n this[j] = copy\n }\n}\n\n/**\n * Randomly shuffles elements in this array in-place using the specified\n [random] instance as the source of randomness.\n * \n * See:
```

[https://en.wikipedia.org/wiki/Fisher%20%93Yates\\_shuffle#The\\_modern\\_algorithm](https://en.wikipedia.org/wiki/Fisher%20%93Yates_shuffle#The_modern_algorithm)\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.shuffle(random: Random):\nUnit {\n for (i in lastIndex downTo 1) {\n val j = random.nextInt(i + 1)\n val copy = this[i]\n this[i] =\n this[j]\n this[j] = copy\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their\n natural sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
```

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

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.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
```

```
UByteArray.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 UShortArray.sortDescending(): Unit {\n if\n (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Returns a list of all elements sorted according to their\n natural sort order.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
```

```
UIntArray.sorted():\nList<UInt> {\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
```

```
ULongArray.sorted(): List<ULong> {\n return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all\n elements sorted according to their natural sort order.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sorted(): List<UByte> {\n
```

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return copyOf().apply { sort() }.asList()\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 UByteArray.sortedArray(): UByteArray {\n
 if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements
of this array sorted according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArray(): UShortArray
{\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all
elements of this array sorted descending according to their natural sort order.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArrayDescending():
UIntArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns
an array with all elements of this array sorted descending according to their natural sort order.\n
*\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 UByteArray.sortedArrayDescending():
UByteArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n *
Returns an array with all elements of this array sorted descending according to their natural sort order.\n
*\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
ULongArray.sortedDescending(): List<ULong> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns
a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It
means that equal elements preserve their order relative to each other after sorting.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedDescending():
List<UByte> {\n return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted
descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve
their order relative to each other after sorting.\n */\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

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.asList():
List<UInt>\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.asList():
List<ULong>\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UByteArray.asList():
List<UByte>\n\n/**\n * Returns a [List] that wraps the original array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.asList():
List<UShort>\n\n/**\n * Returns an array of type [LongArray], which is a view of this array where each element is
a signed reinterpretation\n * of the corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.asLongArray(): LongArray {\n return storage\n}\n\n/**\n * Returns an array of type [ShortArray],
which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this
array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.asShortArray(): ShortArray {\n return storage\n}\n\n/**\n * Returns an array of type [UByteArray],
which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of
this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun ByteArray.asUByteArray(): UByteArray {\n return UByteArray(this)\n}\n\n/**\n * Returns an array of type
[UIntArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the
corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
IntArray.asUIntArray(): UIntArray {\n return UIntArray(this)\n}\n\n/**\n * Returns an array of type
[ULongArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the
corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
LongArray.asULongArray(): ULongArray {\n return ULongArray(this)\n}\n\n/**\n * Returns an array of type
[UShortArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the
corresponding element of this array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.asUShortArray(): UShortArray {\n return UShortArray(this)\n}\n\n/**\n * Returns `true` if the two
specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the
same order.\n
*\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.contentEquals(other: UIntArray): Boolean {\n
return this.contentEquals(other)\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@Deprecated("Use
Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.contentEquals(other: ULongArray):
Boolean {\n return this.contentEquals(other)\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@Deprecated("Use
Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.contentEquals(other: UByteArray): Boolean
{\n return this.contentEquals(other)\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@Deprecated("Use
Kotlin compiler 1.4 to avoid deprecation
warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
"1.4")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.contentEquals(other: UShortArray):

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Boolean {\n return this.contentEquals(other)\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("1.4")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray?.contentEquals(other:
 UIntArray?): Boolean {\n return this?.storage.contentEquals(other?.storage)\n}\n\n/**\n * Returns `true` if the two
 specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the
 same order.\n * \n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic infix fun
 ULongArray?.contentEquals(other: ULongArray?): Boolean {\n return
 this?.storage.contentEquals(other?.storage)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally*
 equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n
 *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray?.contentEquals(other:
 UByteArray?): Boolean {\n return this?.storage.contentEquals(other?.storage)\n}\n\n/**\n * Returns `true` if the
 two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements
 in the same order.\n * \n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic infix fun
 UShortArray?.contentEquals(other: UShortArray?): Boolean {\n return
 this?.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@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
 warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
 "1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.contentHashCode(): Int {\n return
 this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n
 *\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
 warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
 "1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.contentHashCode(): Int {\n return
 this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n
 *\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
 warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
 "1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.contentHashCode(): Int {\n return
 this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n
 *\n@Deprecated("Use Kotlin compiler 1.4 to avoid deprecation
 warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
 "1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentHashCode(): Int {\n return
 this.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n
 *\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray?.contentHashCode(): Int {\n
 return this?.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("1.4")\n@ExperimentalUnsignedTypes\npublic fun
 ULongArray?.contentHashCode(): Int {\n return this?.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("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray?.contentHashCode(): Int {\n
 return this?.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("1.4")\n@ExperimentalUnsignedTypes\npublic fun
 UShortArray?.contentHashCode(): Int {\n return this?.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@Deprecated("Use Kotlin compiler 1.4 to
 avoid deprecation warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =
 "1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.contentToString(): String {\n return
 this.contentToString()\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@Deprecated("Use
 Kotlin compiler 1.4 to avoid deprecation
 warning.")\n@SinceKotlin("1.3")\n@DeprecatedSinceKotlin(hiddenSince =

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\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.contentToString(): String {\n return
this.contentToString()\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@Deprecated(\"Use
Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince =
\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.contentToString(): String {\n return
this.contentToString()\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@Deprecated(\"Use
Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin(\"1.3\")\n@DeprecatedSinceKotlin(hiddenSince =
\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentToString(): String {\n return
this.contentToString()\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@Deprecated(\"Use
Kotlin compiler 1.4 to avoid deprecation
warning.\")\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray?.contentToString(): String {\n
return this?.joinToString(\" \", \" \", \"[\", \"]\") ?: \"null\"\n}\n\n/**\n * Returns a string representation of the contents of
the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray?.contentToString(): String {\n
return this?.joinToString(\" \", \" \", \"[\", \"]\") ?: \"null\"\n}\n\n/**\n * Returns a string representation of the contents of
the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray?.contentToString(): String {\n
return this?.joinToString(\" \", \" \", \"[\", \"]\") ?: \"null\"\n}\n\n/**\n * Returns a string representation of the contents of
the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.4\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray?.contentToString(): String {\n
return this?.joinToString(\" \", \" \", \"[\", \"]\") ?: \"null\"\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 * @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
```

```
*\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 * \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
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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

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.copyOf(newSize: Int): ULongArray {\n return ULongArray(storage.copyOf(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.copyOf(newSize: Int): UByteArray {\n return UByteArray(storage.copyOf(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
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) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@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) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@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) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@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) to copy.\n * @param toIndex the end of the range (exclusive) to copy.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.copyOfRange(fromIndex: Int, toIndex: Int): UShortArray {\n return
UShortArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n * \n * @throws
IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
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*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UIntArray.fill(element: UInt, fromIndex:
Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toInt(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array
or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive) to
fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by default.\n *
\n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this
array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun ULongArray.fill(element: ULong,
fromIndex: Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toLong(), fromIndex, toIndex)\n}\n\n/**\n
* Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range
(inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UByteArray.fill(element: UByte,
fromIndex: Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toByte(), fromIndex, toIndex)\n}\n\n/**\n
* Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range
(inclusive) to fill, 0 by default.\n * @param toIndex the end of the range (exclusive) to fill, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic fun UShortArray.fill(element: UShort,
fromIndex: Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toShort(), fromIndex, toIndex)\n}\n\n/**\n
* Returns the range of valid indices for the array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic inline val UIntArray.indices: IntRange\n get()
= storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic inline val ULongArray.indices: IntRange\n
 get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic inline val UByteArray.indices: IntRange\n
 get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic inline val UShortArray.indices: IntRange\n
 get() = storage.indices\n\n/**\n * Returns the last valid index for the array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic inline val UIntArray.lastIndex: Int\n get() =
storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic inline val ULongArray.lastIndex: Int\n get() =
storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic inline val UByteArray.lastIndex: Int\n get() =
storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n
*^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\npublic inline val UShortArray.lastIndex: Int\n get() =
storage.lastIndex\n\n/**\n * Returns an array containing all elements of the original array and then the given
[element].\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
operator fun UIntArray.plus(element: UInt): UIntArray {\n return UIntArray(storage +
element.toInt())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given
[element].\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
operator fun ULongArray.plus(element: ULong): ULongArray {\n return ULongArray(storage +
element.toLong())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given
[element].\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
operator fun UByteArray.plus(element: UByte): UByteArray {\n return UByteArray(storage +
element.toByte())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given
[element].\n *^@SinceKotlin("1.3")@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
operator fun UShortArray.plus(element: UShort): UShortArray {\n return UShortArray(storage +

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element.toShort())\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements
of the given [elements] collection.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator
fun UIntArray.plus(elements: Collection<UInt>): UIntArray {\n var index = size\n val result =
storage.copyOf(size + elements.size)\n for (element in elements) result[index++] = element.toInt()\n return
UIntArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements
of the given [elements] collection.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator
fun ULongArray.plus(elements: Collection<ULong>): ULongArray {\n var index = size\n val result =
storage.copyOf(size + elements.size)\n for (element in elements) result[index++] = element.toLong()\n return
ULongArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all
elements of the given [elements] collection.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
operator fun UByteArray.plus(elements: Collection<UByte>): UByteArray {\n var index = size\n val result =
storage.copyOf(size + elements.size)\n for (element in elements) result[index++] = element.toByte()\n return
UByteArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements
of the given [elements] collection.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic operator
fun UShortArray.plus(elements: Collection<UShort>): UShortArray {\n var index = size\n val result =
storage.copyOf(size + elements.size)\n for (element in elements) result[index++] = element.toShort()\n return
UShortArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all
elements of the given [elements] array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UIntArray.plus(elements: UIntArray): UIntArray {\n return UIntArray(storage + elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
ULongArray.plus(elements: ULongArray): ULongArray {\n return ULongArray(storage +
elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements
of the given [elements] array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UByteArray.plus(elements: UByteArray): UByteArray {\n return UByteArray(storage +
elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements
of the given [elements] array.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun
UShortArray.plus(elements: UShortArray): UShortArray {\n return UShortArray(storage +
elements.storage)\n}\n\n/**\n * Sorts the array in-place.\n */\n@sample
samples.collections.Arrays.Sorting.sortArray\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UIntArray.sort(): Unit {\n if (size > 1) sortArray(this, 0, size)\n}\n\n/**\n * Sorts the array in-place.\n */\n@sample
samples.collections.Arrays.Sorting.sortArray\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun ULongArray.sort(): Unit {\n if (size > 1)
sortArray(this, 0, size)\n}\n\n/**\n * Sorts the array in-place.\n */\n@sample
samples.collections.Arrays.Sorting.sortArray\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UByteArray.sort(): Unit {\n if (size > 1) sortArray(this, 0, size)\n}\n\n/**\n * Sorts the array in-place.\n */\n@sample
samples.collections.Arrays.Sorting.sortArray\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UShortArray.sort(): Unit {\n if (size > 1)
sortArray(this, 0, size)\n}\n\n/**\n * Sorts a range in the array in-place.\n */\n@sample
samples.collections.Arrays.Sorting.sortRangeOfArray\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic
fun UIntArray.sort(fromIndex: Int = 0, toIndex:
Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArray(this, fromIndex,

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toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the range
(inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array by
default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than
the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sort(fromIndex: Int = 0,
toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArray(this,
fromIndex, toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the
range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array
by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater
than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sort(fromIndex: Int = 0,
toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArray(this,
fromIndex, toIndex)\n}\n\n/**\n * Sorts a range in the array in-place.\n * \n * @param fromIndex the start of the
range (inclusive) to sort, 0 by default.\n * @param toIndex the end of the range (exclusive) to sort, size of this array
by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater
than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n * \n *
@sample samples.collections.Arrays.Sorting.sortRangeOfArray\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sort(fromIndex: Int = 0,
toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n sortArray(this,
fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of the array in the specified range in-place.\n * The elements are
sorted descending according to their natural sort order.\n * \n * @param fromIndex the start of the range (inclusive)
to sort.\n * @param toIndex the end of the range (exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException
if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws
IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortDescending(fromIndex: Int,
toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements of
the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort
order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range
(exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is
greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortDescending(fromIndex:
Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements
of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort
order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range
(exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is
greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortDescending(fromIndex:
Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Sorts elements
of the array in the specified range in-place.\n * The elements are sorted descending according to their natural sort
order.\n * \n * @param fromIndex the start of the range (inclusive) to sort.\n * @param toIndex the end of the range
(exclusive) to sort.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is
greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortDescending(fromIndex:
Int, toIndex: Int): Unit {\n sort(fromIndex, toIndex)\n reverse(fromIndex, toIndex)\n}\n\n/**\n * Returns an
array of type [ByteArray], which is a copy of this array where each element is a signed reinterpretation\n * of the
corresponding element of this array.\n

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*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UByteArray.toByteArray(): ByteArray {^ return storage.copyOf()\n}\n/n/**^n * Returns an array of type
[IntArray], which is a copy of this array where each element is a signed reinterpretation^n * of the corresponding
element of this array.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UIntArray.toIntArray(): IntArray {^ return storage.copyOf()\n}\n/n/**^n * Returns an array of type [LongArray],
which is a copy of this array where each element is a signed reinterpretation^n * of the corresponding element of this
array.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
ULongArray.toLongArray(): LongArray {^ return storage.copyOf()\n}\n/n/**^n * Returns an array of type
[ShortArray], which is a copy of this array where each element is a signed reinterpretation^n * of the corresponding
element of this array.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
UShortArray.toShortArray(): ShortArray {^ return storage.copyOf()\n}\n/n/**^n * Returns a *typed* object array
containing all of the elements of this primitive array.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UIntArray.toTypedArray(): Array<UInt>
{^ return Array(size) { index -> this[index] }\n}\n/n/**^n * Returns a *typed* object array containing all of the
elements of this primitive array.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun
ULongArray.toTypedArray(): Array<ULong> {^ return Array(size) { index -> this[index] }\n}\n/n/**^n *
Returns a *typed* object array containing all of the elements of this primitive array.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UByteArray.toTypedArray():
Array<UByte> {^ return Array(size) { index -> this[index] }\n}\n/n/**^n * Returns a *typed* object array
containing all of the elements of this primitive array.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun UShortArray.toTypedArray():
Array<UShort> {^ return Array(size) { index -> this[index] }\n}\n/n/**^n * Returns an array of UByte containing
all of the elements of this generic array.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun
Array<out UByte>.toUByteArray(): UByteArray {^ 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
reinterpretation^n * of the corresponding element of this array.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
ByteArray.toUByteArray(): UByteArray {^ return UByteArray(this.copyOf())\n}\n/n/**^n * Returns an array of
UInt containing all of the elements of this generic array.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun Array<out UInt>.toUIntArray(): UIntArray
{^ return UIntArray(size) { index -> this[index] }\n}\n/n/**^n * Returns an array of type [UIntArray], which is a
copy of this array where each element is an unsigned reinterpretation^n * of the corresponding element of this
array.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
IntArray.toUIntArray(): UIntArray {^ return UIntArray(this.copyOf())\n}\n/n/**^n * Returns an array of ULong
containing all of the elements of this generic array.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun Array<out ULong>.toULongArray():
ULongArray {^ return ULongArray(size) { index -> this[index] }\n}\n/n/**^n * Returns an array of type
[ULongArray], which is a copy of this array where each element is an unsigned reinterpretation^n * of the
corresponding element of this array.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^@kotlin.internal.InlineOnly^public inline fun
LongArray.toULongArray(): ULongArray {^ return ULongArray(this.copyOf())\n}\n/n/**^n * Returns an array
of UShort containing all of the elements of this generic array.\n
*^@SinceKotlin("1.3")^@ExperimentalUnsignedTypes^public fun Array<out UShort>.toUShortArray():
UShortArray {^ return UShortArray(size) { index -> this[index] }\n}\n/n/**^n * Returns an array of type
[UShortArray], which is a copy of this array where each element is an unsigned reinterpretation^n * of the
corresponding element of this array.\n

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ShortArray.toUShortArray(): UShortArray {\n return UShortArray(this.copyOf())\n}\n\n/**\n * Returns a [Map]
where keys are elements from the given array and values are\n * produced by the [valueSelector] function applied to
each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map
preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UIntArray.associateWith(valueSelector: (UInt) -> V): Map<UInt, V> {\n val result = LinkedHashMap<UInt,
V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Returns a
[Map] where keys are elements from the given array and values are\n * produced by the [valueSelector] function
applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The
returned map preserves the entry iteration order of the original array.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
ULongArray.associateWith(valueSelector: (ULong) -> V): Map<ULong, V> {\n val result =
LinkedHashMap<ULong, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UByteArray.associateWith(valueSelector: (UByte) -> V): Map<UByte, V> {\n val result =
LinkedHashMap<UByte, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Returns a [Map] where keys are elements from the given array and values are\n *
produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one
gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n * \n *
@sample samples.collections.Collections.Transformations.associateWith\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UShortArray.associateWith(valueSelector: (UShort) -> V): Map<UShort, V> {\n val result =
LinkedHashMap<UShort, V>(mapCapacity(size).coerceAtLeast(16))\n return associateWithTo(result,
valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each
element of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function
applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n
* @sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M :
MutableMap<in UInt, in V>> UIntArray.associateWithTo(destination: M, valueSelector: (UInt) -> V): M {\n for
(element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n *
Populates and returns the [destination] mutable map with key-value pairs for each element of the given array,\n *
where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If
any two elements are equal, the last one overwrites the former value in the map.\n * \n * @sample
samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M :
MutableMap<in ULong, in V>> ULongArray.associateWithTo(destination: M, valueSelector: (ULong) -> V): M
{\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element
of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied
to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n *
@sample samples.collections.Collections.Transformations.associateWithTo\n

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*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M :
MutableMap<in UByte, in V>> UByteArray.associateWithTo(destination: M, valueSelector: (UByte) -> V): M {\n
for (element in this) {\n destination.put(element, valueSelector(element))\n } \n return
destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element
of the given array,\n * where key is the element itself and value is provided by the [valueSelector] function applied
to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n * \n *
@sample samples.collections.Collections.Transformations.associateWithTo\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V, M :
MutableMap<in UShort, in V>> UShortArray.associateWithTo(destination: M, valueSelector: (UShort) -> V): M {
\n for (element in this) {\n destination.put(element, valueSelector(element))\n } \n return
destination\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.flatMap(transform: (UInt) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.flatMap(transform: (ULong) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.flatMap(transform: (UByte) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element of original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMap\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.flatMap(transform: (UShort) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being
invoked on each element\n * and its index in the original array.\n * \n * @sample
samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.flatMapIndexed(transform: (index: Int, UInt) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.flatMapIndexed(transform: (index: Int, ULong) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.flatMapIndexed(transform: (index: Int, UByte) -> Iterable<R>): List<R> {\n return

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flatMapIndexedTo(ArrayList<R>(), transform)\n\n/**\n * Returns a single list of all elements yielded from
results of [transform] function being invoked on each element\n * and its index in the original array.\n * \n *
@sample samples.collections.Collections.Transformations.flatMapIndexed\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.flatMapIndexed(transform: (index: Int, UShort) -> Iterable<R>): List<R> {\n return
flatMapIndexedTo(ArrayList<R>(), transform)\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.flatMapIndexedTo(destination: C, transform: (index: Int, UInt) ->
Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n
destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> ULongArray.flatMapIndexedTo(destination: C, transform: (index: Int, ULong) ->
Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n
destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UByteArray.flatMapIndexedTo(destination: C, transform: (index: Int, UByte) ->
Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n
destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element\n * and its index in the original array, to the given
[destination].\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UShortArray.flatMapIndexedTo(destination: C, transform: (index: Int, UShort) ->
Iterable<R>): C {\n var index = 0\n for (element in this) {\n val list = transform(index++, element)\n
destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of
[transform] function being invoked on each element of original array, to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.flatMapTo(destination: C, transform: (UInt) -> Iterable<R>): C {\n for
(element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> ULongArray.flatMapTo(destination: C, transform: (ULong) -> Iterable<R>): C {\n for
(element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return
destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each
element of original array, to the given [destination].\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UByteArray.flatMapTo(destination: C, transform: (UByte) -> Iterable<R>): C {\n for

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(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
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UShortArray.flatMapTo(destination: C, transform: (UShort) -> Iterable<R>): C {\n for
(element in this) {\n val list = transform(element)\n destination.addAll(list)\n } \n return
destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector]
function\n * applied to each element and returns a map where each group key is associated with a list of
corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>
UIntArray.groupBy(keySelector: (UInt) -> K): Map<K, List<UInt>> {\n return groupByTo(LinkedHashMap<K,
MutableList<UInt>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the
given [keySelector] function\n * applied to each element and returns a map where each group key is associated with
a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced
from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>
ULongArray.groupBy(keySelector: (ULong) -> K): Map<K, List<ULong>> {\n return
groupByTo(LinkedHashMap<K, MutableList<ULong>>(), keySelector)\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map
where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the
entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>
UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>> {\n return
groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector)\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map
where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the
entry iteration order of the keys produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>
UShortArray.groupBy(keySelector: (UShort) -> K): Map<K, List<UShort>> {\n return
groupByTo(LinkedHashMap<K, MutableList<UShort>>(), keySelector)\n}\n\n/**\n * Groups values returned by
the [valueTransform] function applied to each element of the original array\n * by the key returned by the given
[keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of
corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the
original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
UIntArray.groupBy(keySelector: (UInt) -> K, valueTransform: (UInt) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values
returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by
the given [keySelector] function applied to the element\n * and returns a map where each group key is associated
with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys
produced from the original array.\n * \n * @sample
samples.collections.Collections.Transformations.groupByKeysAndValues\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V>
ULongArray.groupBy(keySelector: (ULong) -> K, valueTransform: (ULong) -> V): Map<K, List<V>> {\n return
groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values

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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.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) {\n
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) {\n
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) {\n
ArrayList<UByte>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the
original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the
[destination] map each group key associated with a list of corresponding elements.\n * \n * @return The
[destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M :
MutableMap<in K, MutableList<UShort>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K):
M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) {\n
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 * 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
*\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 * 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
*\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 * 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
*\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 * Returns a list containing the results of applying the given [transform] function\n * to each
element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.map(transform: (UInt) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n *
Returns a list containing the results of applying the given [transform] function\n * to each element in the original
array.\n * \n * @sample samples.collections.Collections.Transformations.map\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
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
*\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>

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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 */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UShortArray.mapIndexedTo(destination: C, transform: (index: Int, UShort) -> R): C {\n var
index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return
destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and
appends the results to the given [destination].\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :
MutableCollection<in R>> UIntArray.mapTo(destination: C, transform: (UInt) -> R): C {\n for (item in this)\n
destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each
element of the original array\n * and appends the results to the given [destination].\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C :

```

```

MutableCollection<in R>> ULongArray.mapTo(destination: C, transform: (ULong) -> R): C {
 for (item in this)
 destination.add(transform(item))
 return destination
}

* Applies the given [transform] function to each element of the original array
* and appends the results to the given [destination].

* @SinceKotlin("1.3") @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> UByteArray.mapTo(destination: C, transform: (UByte) -> R): C {
 for (item in this)
 destination.add(transform(item))
 return destination
}

* Applies the given [transform] function to each element of the original array
* and appends the results to the given [destination].

* @SinceKotlin("1.3") @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly
public inline fun <R, C : MutableCollection<in R>> UShortArray.mapTo(destination: C, transform: (UShort) -> R): C {
 for (item in this)
 destination.add(transform(item))
 return destination
}

* Returns a lazy [Iterable] that wraps each element of the original array
* into an [IndexedValue] containing the index of that element and the element itself.

* @SinceKotlin("1.3") @ExperimentalUnsignedTypes
public fun UIntArray.withIndex(): Iterable<IndexedValue<UInt>> {
 return IndexingIterable { iterator() }
}

* Returns a lazy [Iterable] that wraps each element of the original array
* into an [IndexedValue] containing the index of that element and the element itself.

* @SinceKotlin("1.3") @ExperimentalUnsignedTypes
public fun ULongArray.withIndex(): Iterable<IndexedValue<ULong>> {
 return IndexingIterable { iterator() }
}

* Returns a lazy [Iterable] that wraps each element of the original array
* into an [IndexedValue] containing the index of that element and the element itself.

* @SinceKotlin("1.3") @ExperimentalUnsignedTypes
public fun UByteArray.withIndex(): Iterable<IndexedValue<UByte>> {
 return IndexingIterable { iterator() }
}

* Returns a lazy [Iterable] that wraps each element of the original array
* into an [IndexedValue] containing the index of that element and the element itself.

* @SinceKotlin("1.3") @ExperimentalUnsignedTypes
public fun UShortArray.withIndex(): Iterable<IndexedValue<UShort>> {
 return IndexingIterable { iterator() }
}

* Returns `true` if all elements match the given [predicate].

* @sample samples.collections.Collections.Aggregates.all
* @SinceKotlin("1.3") @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly
public inline fun UIntArray.all(predicate: (UInt) -> Boolean): Boolean {
 for (element in this) if (!predicate(element)) return false
 return true
}

* Returns `true` if all elements match the given [predicate].

* @sample samples.collections.Collections.Aggregates.all
* @SinceKotlin("1.3") @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly
public inline fun ULongArray.all(predicate: (ULong) -> Boolean): Boolean {
 for (element in this) if (!predicate(element)) return false
 return true
}

* Returns `true` if all elements match the given [predicate].

* @sample samples.collections.Collections.Aggregates.all
* @SinceKotlin("1.3") @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly
public inline fun UByteArray.all(predicate: (UByte) -> Boolean): Boolean {
 for (element in this) if (!predicate(element)) return false
 return true
}

* Returns `true` if all elements match the given [predicate].

* @sample samples.collections.Collections.Aggregates.all
* @SinceKotlin("1.3") @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly
public inline fun UShortArray.all(predicate: (UShort) -> Boolean): Boolean {
 for (element in this) if (!predicate(element)) return false
 return true
}

* Returns `true` if array has at least one element.

* @sample samples.collections.Collections.Aggregates.any
* @SinceKotlin("1.3") @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly
public inline fun UIntArray.any(): Boolean {
 return storage.any()
}

* Returns `true` if array has at least one element.

* @sample samples.collections.Collections.Aggregates.any
* @SinceKotlin("1.3") @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly
public inline fun ULongArray.any(): Boolean {
 return storage.any()
}

* Returns `true` if array has at least one element.

* @sample samples.collections.Collections.Aggregates.any
* @SinceKotlin("1.3") @ExperimentalUnsignedTypes @kotlin.internal.InlineOnly
public inline fun UByteArray.any(): Boolean {
 return storage.any()
}

* Returns `true` if array has at least one element.

* @sample samples.collections.Collections.Aggregates.any

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*\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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.count(predicate: (ULong) -> Boolean): Int {\n var count = 0\n for (element in this) if
(predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.count(predicate: (UByte) -> Boolean): Int {\n var count = 0\n for (element in this) if
(predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given
[predicate].\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.count(predicate: (UShort) -> Boolean): Int {\n var count = 0\n for (element in this) if
(predicate(element)) ++count\n return count\n}\n\n/**\n * Accumulates value starting with [initial] value and
applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns the
specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes current accumulator
value and an element, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.fold(initial: R, operation: (acc: R, UInt) -> R): R {\n var accumulator = initial\n for (element in
this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting
with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element.\n *
Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes
current accumulator value and an element, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.fold(initial: R, operation: (acc: R, ULong) -> R): R {\n var accumulator = initial\n for (element in
this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value
starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each
element.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that
takes current accumulator value and an element, and calculates the next accumulator value.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.fold(initial: R, operation: (acc: R, UByte) -> R): R {\n var accumulator = initial\n for (element in
this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value

```

starting with [initial] value and applying [operation] from left to right\n \* to current accumulator value and each element.\n \* Returns the specified [initial] value if the array is empty.\n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUShortArray.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 * Returns the specified [initial] value if the array is empty.\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>\nUIntArray.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 * Returns the specified [initial] value if the array is empty.\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>\nULongArray.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 * Returns the specified [initial] value if the array is empty.\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>\nUByteArray.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 * Returns the specified [initial] value if the array is empty.\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>\nUShortArray.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\n * to each element and current accumulator value.\n * Returns the specified [initial] value if the array is empty.\n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUIntArray.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\n * to each element and current accumulator value.\n * Returns the specified [initial] value if the array is empty.\n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nULongArray.foldRight(initial: R, operation: (ULong, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n
```

return accumulator\n}\n\n/\*\*\n \* Accumulates value starting with [initial] value and applying [operation] from right to left\n \* to each element and current accumulator value.\n \* \n \* Returns the specified [initial] value if the array is empty.\n \* \n \* @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUByteArray.foldRight(initial: R, operation: (UByte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes an element and current accumulator value, and calculates the next accumulator value.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUShortArray.foldRight(initial: R, operation: (UShort, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUIntArray.foldRightIndexed(initial: R, operation: (index: Int, UInt, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nULongArray.foldRightIndexed(initial: R, operation: (index: Int, ULong, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUByteArray.foldRightIndexed(initial: R, operation: (index: Int, UByte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n * Returns the specified [initial] value if the array is empty.\n * \n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUShortArray.foldRightIndexed(initial: R, operation: (index: Int, UShort, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n *\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.forEach(action: (UInt) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n
```

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*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.forEach(action: (ULong) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.forEach(action: (UByte) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.forEach(action: (UShort) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n *
Performs the given [action] on each element, providing sequential index with the element.\n * @param [action]
function that takes the index of an element and the element itself\n * and performs the action on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.forEachIndexed(action: (index: Int, UInt) -> Unit): Unit {\n var index = 0\n for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.forEachIndexed(action: (index: Int, ULong) -> Unit): Unit {\n var index = 0\n for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.forEachIndexed(action: (index: Int, UByte) -> Unit): Unit {\n var index = 0\n for (item in this)
action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with
the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs
the action on the element.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.forEachIndexed(action: (index: Int, UShort) -> Unit): Unit {\n var index = 0\n for (item in this)
action(index++, item)\n}\n\n@Deprecated("Use maxOrNull instead.")\nReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.max():
UInt? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")\nReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.max():
ULong? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")\nReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.max():
UByte? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxOrNull instead.")\nReplaceWith("this.maxOrNull()")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.max():
UShort? {\n return maxOrNull()\n}\n\n@Deprecated("Use maxByOrNull instead.")\nReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince =
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt? {\n return
maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead.")\nReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince =
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

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<R : Comparable<R>> ULongArray.maxBy(selector: (ULong) -> R): ULong? {\n return
maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead."),
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince =
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> UByteArray.maxBy(selector: (UByte) -> R): UByte? {\n return
maxByOrNull(selector)\n}\n\n@Deprecated("Use maxByOrNull instead."),
ReplaceWith("this.maxByOrNull(selector)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince =
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> UShortArray.maxBy(selector: (UShort) -> R): UShort? {\n return
maxByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxByOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.maxByOrNull(selector: (UInt) -> R): UInt? {\n if (isEmpty()) return null\n var
maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)
{\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.maxByOrNull(selector: (ULong) -> R): ULong? {\n if (isEmpty()) return null\n
var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)
{\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UByteArray.maxByOrNull(selector: (UByte) -> R): UByte? {\n if (isEmpty()) return null\n
var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue =
selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v)
{\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxByOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.maxByOrNull(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/**\n * Returns the largest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.maxOf(selector: (UInt) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n
var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]

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function is `NaN`, the returned result is `NaN`.n * \n * @throws NoSuchElementException if the array is empty.n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.maxOf(selector: (ULong) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n
var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.n * \n * @throws NoSuchElementException if the array is empty.n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.maxOf(selector: (UByte) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n
var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.n * \n * @throws NoSuchElementException if the array is empty.n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.maxOf(selector: (UShort) -> Double): Double {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the
largest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If
any of values produced by [selector] function is `NaN`, the returned result is `NaN`.n * \n * @throws
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.maxOf(selector: (UInt) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.n * \n * @throws NoSuchElementException if the array is empty.n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.maxOf(selector: (ULong) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n
var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.n * \n * @throws NoSuchElementException if the array is empty.n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
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UByteArray.maxOf(selector: (UByte) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.maxOf(selector: (UShort) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n
var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =

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maxOf(maxValue, v)\n } return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the
array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.maxOf(selector: (UInt) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.maxOf(selector: (UInt) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.maxOf(selector: (ULong) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UByteArray.maxOf(selector: (UByte) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.maxOf(selector: (UShort) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value among all values produced by [selector] function\n * applied to each element in the
array
or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the
returned
result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.maxOfOrNull(selector: (UInt) -> Double): Double? {\n if (isEmpty()) return null\n var
maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n *
If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.maxOfOrNull(selector: (ULong) -> Double): Double? {\n if (isEmpty()) return null\n var
maxValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue =
maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced
by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n *
If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

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ByteArray.maxOrNull(selector: (UByte) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.maxOrNull(selector: (UShort) -> Double): Double? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.maxOrNull(selector: (UInt) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.maxOrNull(selector: (ULong) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ByteArray.maxOrNull(selector: (UByte) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.maxOrNull(selector: (UShort) -> Float): Float? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n maxValue = maxOf(maxValue, v)\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned result is `NaN`.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
UIntArray.maxOrNull(selector: (UInt) -> R): R? {\n if (isEmpty()) return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n * Returns the largest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolutionByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>>
ULongArray.maxOrNull(selector: (ULong) -> R): R? {\n if (isEmpty()) return null\n var

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maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n } \n } \n return maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UByteArray.maxOrNull(selector: (UByte) -> R): R? {\n if (isEmpty()) return null\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n } \n } \n return maxValue\n}\n\n/**\n * Returns the largest value among all values
produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.maxOrNull(selector: (UShort) -> R): R? {\n if (isEmpty()) return null\n var
maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (maxValue < v) {\n
maxValue = v\n } \n } \n return maxValue\n}\n\n/**\n * Returns the largest value according to the
provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n
*\n * @throws NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.maxOfWith(comparator: Comparator<in R>, selector: (UInt) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n } \n } \n return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if
the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
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UIntArray.maxOfWith(comparator: Comparator<in R>, selector: (UInt) -> R): R {\n if (isEmpty()) throw
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selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n } \n } \n return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if
the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.maxOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n } \n } \n return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if
the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.maxOfWith(comparator: Comparator<in R>, selector: (UByte) -> R): R {\n if (isEmpty()) throw
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selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n } \n } \n return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array.\n * \n * @throws NoSuchElementException if
the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.maxOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (comparator.compare(maxValue, v) < 0) {\n maxValue = v\n } \n } \n return
maxValue\n}\n\n/**\n * Returns the largest value according to the provided [comparator]\n * among all values
produced by [selector] function applied to each element in the array or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UInt) -> R): R? {\n if (isEmpty()) return
null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (ULong) -> R): R? {\n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {\n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest value according to the provided [comparator]\n * among all values produced by [selector]
function applied to each element in the array or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.maxOfWithOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {\n if (isEmpty())
return null\n var maxValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(maxValue, v) < 0) {\n maxValue = v\n }\n }\n return maxValue\n}\n\n/**\n *
Returns the largest element or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxOrNull(): UInt? {\n if
(isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max
= e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.maxOrNull(): ULong? {\n if
(isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max
= e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.maxOrNull(): UByte? {\n if
(isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max
= e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.maxOrNull(): UShort? {\n if
(isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max
= e\n }\n return max\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.maxWith(comparator: Comparator<in UInt>): UInt? {\n return
maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.maxWith(comparator: Comparator<in ULong>): ULong? {\n return
maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.")\nReplaceWith("this.maxWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun

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ByteArray.maxWith(comparator: Comparator<in UByte>): UByte? {\n return
maxWithOrNull(comparator)\n}\n\n@Deprecated("Use maxWithOrNull instead.\",
ReplaceWith("this.maxWithOrNull(comparator)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.maxWith(comparator: Comparator<in UShort>): UShort? {\n return
maxWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the largest value according to the
provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxWithOrNull(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/**\n * Returns the
first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.maxWithOrNull(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/**\n * Returns the
first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ByteArray.maxWithOrNull(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/**\n * Returns the
first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.maxWithOrNull(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@Deprecated("Use minOrNull instead.\",
ReplaceWith("this.minOrNull()")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.min(): UInt?
{\n return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.\",
ReplaceWith("this.minOrNull()")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.min():
ULong? {\n return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.\",
ReplaceWith("this.minOrNull()")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun ByteArray.min():
UByte? {\n return minOrNull()\n}\n\n@Deprecated("Use minOrNull instead.\",
ReplaceWith("this.minOrNull()")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.5",
hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.min():
UShort? {\n return minOrNull()\n}\n\n@Deprecated("Use minByOrNull instead.\",
ReplaceWith("this.minByOrNull(selector)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince =
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> UIntArray.minBy(selector: (UInt) -> R): UInt? {\n return
minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead.\",
ReplaceWith("this.minByOrNull(selector)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince =
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> ULongArray.minBy(selector: (ULong) -> R): ULong? {\n return
minByOrNull(selector)\n}\n\n@Deprecated("Use minByOrNull instead.\",
ReplaceWith("this.minByOrNull(selector)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince =
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

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<R : Comparable<R>> UByteArray.minBy(selector: (UByte) -> R): UByte? {\n return
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ReplaceWith("this.minByOrNull(selector)")\n)\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince =
"1.5", hiddenSince =
"1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
<R : Comparable<R>> UShortArray.minBy(selector: (UShort) -> R): UShort? {\n return
minByOrNull(selector)\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.minByOrNull(selector: (UInt) -> R): UInt? {\n if (isEmpty()) return null\n var
minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.minByOrNull(selector: (ULong) -> R): ULong? {\n if (isEmpty()) return null\n
var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UByteArray.minByOrNull(selector: (UByte) -> R): UByte? {\n if (isEmpty()) return null\n
var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first
element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.minByOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UShortArray.minByOrNull(selector: (UShort) -> R): UShort? {\n if (isEmpty()) return null\n
var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue =
selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v)
{\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the smallest
value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * If any of
values produced by [selector] function is `NaN`, the returned result is `NaN`.\n * \n * @throws
NoSuchElementException if the array is empty.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.minOf(selector: (UInt) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.minOf(selector: (ULong) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =

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minOf(minValue, v)\n } return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n * \n * @throws NoSuchElementException if the array is empty.\n
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.minOf(selector: (UByte) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.minOf(selector: (UShort) -> Double): Double {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
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UIntArray.minOf(selector: (UInt) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
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ULongArray.minOf(selector: (ULong) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
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UShortArray.minOf(selector: (UShort) -> Float): Float {\n if (isEmpty()) throw NoSuchElementException()\n
var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue =
minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced
by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the
array is empty.\n
*\n * \n *\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.minOf(selector: (UInt) -> R): R {\n if (isEmpty()) throw

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NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> ULongArray.minOf(selector: (ULong) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the
array.\n * \n * @throws NoSuchElementException if the array is empty.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
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Comparable<R>> UByteArray.minOf(selector: (UByte) -> R): R {\n if (isEmpty()) throw
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Comparable<R>> UShortArray.minOf(selector: (UShort) -> R): R {\n if (isEmpty()) throw
NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =
selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array
or `null` if there are no elements.\n * \n * If any of values produced by [selector] function is `NaN`, the returned
result is `NaN`.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.minOfOrNull(selector: (UInt) -> Double): Double? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n *
applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by [selector]
function is `NaN`, the returned result is `NaN`.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.minOfOrNull(selector: (ULong) -> Double): Double? {\n if (isEmpty()) return null\n var minValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n *
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applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution

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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.minOfOrNull(selector: (UShort) -> Double): Double? {\n if (isEmpty()) return null\n var minValue
= selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n * \n * If any of values produced by
[selector] function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.minOfOrNull(selector: (UInt) -> Float): Float? {\n if (isEmpty()) return null\n var minValue =
selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n minValue = minOf(minValue, v)\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values produced by [selector] function\n *
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function is `NaN`, the returned result is `NaN`.\n
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.minOfOrNull(selector: (ULong) -> Float): Float? {\n if (isEmpty()) return null\n var minValue =
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ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R :
Comparable<R>> UIntArray.minOfOrNull(selector: (UInt) -> R): R? {\n if (isEmpty()) return null\n var
minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n
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Comparable<R>> UByteArray.minOfOrNull(selector: (UByte) -> R): R? {\n if (isEmpty()) return null\n var

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minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value among all values\n produced by [selector] function\n * applied to each element in the array or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.minOfOrNull(selector: (UShort) -> R): R? {\n if (isEmpty()) return null\n var\n minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if (minValue > v) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the\n provided [comparator]\n * among all values produced by [selector] function applied to each element in the array.\n */\n\n@throws NoSuchElementException if the array is empty.\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUIntArray.minOfWith(comparator: Comparator<in R>, selector: (UInt) -> R): R {\n if (isEmpty()) throw\n NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =\n selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return\n minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values\n produced by [selector] function applied to each element in the array.\n */\n\n@throws NoSuchElementException if\n the array is empty.\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nULongArray.minOfWith(comparator: Comparator<in R>, selector: (ULong) -> R): R {\n if (isEmpty()) throw\n NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =\n selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return\n minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values\n produced by [selector] function applied to each element in the array.\n */\n\n@throws NoSuchElementException if\n the array is empty.\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUByteArray.minOfWith(comparator: Comparator<in R>, selector: (UByte) -> R): R {\n if (isEmpty()) throw\n NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =\n selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return\n minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values\n produced by [selector] function applied to each element in the array.\n */\n\n@throws NoSuchElementException if\n the array is empty.\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUShortArray.minOfWith(comparator: Comparator<in R>, selector: (UShort) -> R): R {\n if (isEmpty()) throw\n NoSuchElementException()\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v =\n selector(this[i])\n if (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return\n minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values\n produced by [selector] function applied to each element in the array or `null` if there are no elements.\n */\n\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>\nUIntArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UInt) -> R): R? {\n if (isEmpty()) return\n null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if\n (comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n * Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]\n function applied to each element in the array or `null` if there are no elements.\n */

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*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (ULong) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
Returns the smallest value according to the provided [comparator]\n * among all values produced by [selector]
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UByteArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UByte) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
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UShortArray.minOfWithOrNull(comparator: Comparator<in R>, selector: (UShort) -> R): R? {\n if (isEmpty())
return null\n var minValue = selector(this[0])\n for (i in 1..lastIndex) {\n val v = selector(this[i])\n if
(comparator.compare(minValue, v) > 0) {\n minValue = v\n }\n }\n return minValue\n}\n\n/**\n *
Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minOrNull(): UInt? {\n if
(isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min =
e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minOrNull(): 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/**\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minOrNull(): 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/**\n * Returns the smallest element or `null` if there are no elements.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minOrNull(): 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@Deprecated("Use minWithOrNull instead.")
ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UIntArray.minWith(comparator: Comparator<in UInt>): UInt? {\n return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.")
ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
ULongArray.minWith(comparator: Comparator<in ULong>): ULong? {\n return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.")
ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.minWith(comparator: Comparator<in UByte>): UByte? {\n return
minWithOrNull(comparator)\n}\n\n@Deprecated("Use minWithOrNull instead.")
ReplaceWith("this.minWithOrNull(comparator)")\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince
= "1.5", hiddenSince = "1.6")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.minWith(comparator: Comparator<in UShort>): UShort? {\n return
minWithOrNull(comparator)\n}\n\n/**\n * Returns the first element having the smallest value according to the

```

provided [comparator] or `null` if there are no elements.\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minWithOrNull(comparator:
Comparator<in UInt>): UInt? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first
element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minWithOrNull(comparator:
Comparator<in ULong>): ULong? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the
first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minWithOrNull(comparator:
Comparator<in UByte>): UByte? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the
first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minWithOrNull(comparator:
Comparator<in UShort>): UShort? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns
`true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n
```

```
*\n@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@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@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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.none(predicate: (UShort) -> Boolean): 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@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.none(predicate: (UInt) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return
false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.none(predicate: (ULong) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return
false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.none(predicate: (UByte) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return
false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.noneWithPredicate\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.none(predicate: (UShort) -> Boolean): Boolean {\n for (element in this) if (predicate(element))
return false\n return true\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.onEach(action: (UInt) -> Unit): UIntArray {\n return apply { for (element in this)
action(element) }\n}\n\n/**\n * Performs the given [action] on each element and returns the array itself
afterwards.\n * \n * @since Kotlin("1.4")\n * @ExperimentalUnsignedTypes\n * @kotlin.internal.InlineOnly\n * public\n
```

```

inline fun ULongArray.onEach(action: (ULong) -> Unit): ULongArray {
 return apply { for (element in this)
 action(element) }
}

/**
 * Performs the given [action] on each element and returns the array itself
 * afterwards.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.onEach(action: (UByte) -> Unit): UByteArray {
 return apply { for (element in this)
 action(element) }
}

/**
 * Performs the given [action] on each element and returns the array itself
 * afterwards.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.onEach(action: (UShort) -> Unit): UShortArray {
 return apply { for (element in this)
 action(element) }
}

/**
 * Performs the given [action] on each element, providing sequential index with the
 * element,
 * and returns the array itself afterwards.
 * @param [action] function that takes the index of an element
 * and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.onEachIndexed(action: (index: Int, UInt) -> Unit): UIntArray {
 return apply {
 forEachIndexed(action) }
}

/**
 * Performs the given [action] on each element, providing sequential index
 * with the element,
 * and returns the array itself afterwards.
 * @param [action] function that takes the index of an
 * element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.onEachIndexed(action: (index: Int, ULong) -> Unit): ULongArray {
 return apply {
 forEachIndexed(action) }
}

/**
 * Performs the given [action] on each element, providing sequential index
 * with the element,
 * and returns the array itself afterwards.
 * @param [action] function that takes the index of an
 * element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.onEachIndexed(action: (index: Int, UByte) -> Unit): UByteArray {
 return apply {
 forEachIndexed(action) }
}

/**
 * Performs the given [action] on each element, providing sequential index
 * with the element,
 * and returns the array itself afterwards.
 * @param [action] function that takes the index of an
 * element and the element itself
 * and performs the action on the element.
 */
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.onEachIndexed(action: (index: Int, UShort) -> Unit): UShortArray {
 return apply {
 forEachIndexed(action) }
}

/**
 * Accumulates value starting with the first element and applying [operation]
 * from left to right
 * to current accumulator value and each element.
 * Throws an exception if this array is
 * empty. If the array can be empty in an expected way,
 * please use [reduceOrNull] instead. It returns `null` when its
 * receiver is empty.
 * @param [operation] function that takes current accumulator value and an element,
 * and calculates the next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
@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.
 * Throws an exception if this array is empty. If the array can be empty
 * in an expected way,
 * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
 * @param [operation] function that takes current accumulator value and an element,
 * and calculates the next
 * accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduce
 */
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.reduce(operation: (acc: ULong, ULong) -> ULong): ULong {
 if (isEmpty())
 throw
 UnsupportedOperationException("Empty array can't be reduced.")
 var accumulator = this[0]
 for (index in
 1..lastIndex) {
 accumulator = operation(accumulator, this[index])
 }
 return accumulator
}

/**
 * Accumulates value starting with the first element and applying [operation] from left to right
 * to current
 * accumulator value and each element.
 * Throws an exception if this array is empty. If the array can be empty
 * in an expected way,
 * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.
 */

```

@param [operation] function that takes current accumulator value and an element,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduce\n

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.reduce(operation: (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(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the first element and applying [operation] from left to right\n * to current
accumulator value and each element.\n * \n * Throws an exception if this array is empty. If the array can be empty
in an expected way,\n * please use [reduceOrNull] instead. It returns `null` when its receiver is empty.\n * \n *
@param [operation] function that takes current accumulator value and an element,\n * and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduce\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.reduce(operation: (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(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n *
Accumulates value starting with the first element and applying [operation] from left to right\n * to current
accumulator value and each element with its index in the original array.\n * \n * Throws an exception if this array is
empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull] instead. It returns `null`
when its receiver is empty.\n * \n * @param [operation] function that takes the index of an element, current
accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduce\n
*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.reduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt {\n if (isEmpty())\n throw
UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = this[0]\n for (index in
1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return
accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to
right\n * to current accumulator value and each element with its index in the original array.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduce\n
*/\n@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 * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull]
instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes the index of an
element, current accumulator value and the element itself,\n * and calculates the next accumulator value.\n * \n *
@sample samples.collections.Collections.Aggregates.reduce\n
*/\n@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 * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceIndexedOrNull]

```

instead. It returns `null` when its receiver is empty.

```

 * @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
 UShortArray.reduceIndexed(operation: (index: Int, 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(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.
 * Returns `null` if
 the array is empty.
 * @param [operation] function that takes the index of an element, current accumulator
 value and the element itself,
 * and calculates the next accumulator value.
 * @sample
 samples.collections.Collections.Aggregates.reduceOrNull
 */
 @SinceKotlin("1.4")
 @ExperimentalUnsignedTypes
 @kotlin.internal.InlineOnly
 public inline fun
 UIntArray.reduceIndexedOrNull(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt? {
 if (isEmpty())
 return null
 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.
 * Returns `null` if the array is empty.
 * @param [operation] function that takes the
 index of an element, current accumulator value and the element itself,
 * and calculates the next accumulator
 value.
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
 @SinceKotlin("1.4")
 @ExperimentalUnsignedTypes
 @kotlin.internal.InlineOnly
 public inline fun
 ULongArray.reduceIndexedOrNull(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong? {
 if
 (isEmpty())
 return null
 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.
 * Returns `null` if the array is empty.
 * @param [operation]
 function that takes the index of an element, current accumulator value and the element itself,
 * and calculates the
 next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
 @SinceKotlin("1.4")
 @ExperimentalUnsignedTypes
 @kotlin.internal.InlineOnly
 public inline fun
 UByteArray.reduceIndexedOrNull(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte? {
 if
 (isEmpty())
 return null
 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.
 * Returns `null` if the array is empty.
 * @param [operation]
 function that takes the index of an element, current accumulator value and the element itself,
 * and calculates the
 next accumulator value.
 * @sample samples.collections.Collections.Aggregates.reduceOrNull
 */
 @SinceKotlin("1.4")
 @ExperimentalUnsignedTypes
 @kotlin.internal.InlineOnly
 public inline fun
 UShortArray.reduceIndexedOrNull(operation: (index: Int, acc: UShort, UShort) -> UShort): UShort? {
 if
 (isEmpty())
 return null
 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.
 * @param [operation] function that takes current
 accumulator value and an element,
 * and calculates the next accumulator value.
 * @sample
 samples.collections.Collections.Aggregates.reduceOrNull
 */
 @SinceKotlin("1.4")
 @ExperimentalUnsignedTypes
 @WasExperimental(ExperimentalStdlibApi::class)
 @kotlin.internal.InlineOnly
 public inline fun
 UIntArray.reduceOrNull(operation: (acc: UInt, UInt) -> UInt): UInt? {
 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\n \* to current accumulator value and each element.\n \* \n \* Returns `null` if the array is empty.\n \* \n \* @param [operation] function that takes current accumulator value and an element,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceOrNull\n

```

*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\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 {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/>\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that takes current accumulator value and an element,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceOrNull\n

```

\*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\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 {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/>\n \* Accumulates value starting with the first element and applying [operation] from left to right\n \* to current accumulator value and each element.\n \* \n \* Returns `null` if the array is empty.\n \* \n \* @param [operation] function that takes current accumulator value and an element,\n \* and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.reduceOrNull\n

```

*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\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 {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/>\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceRight(operation: (UInt, acc: UInt) -> UInt): UInt {\n var index = lastIndex\n if (index < 0)\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/>\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight\n

```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceRight(operation: (ULong, acc: ULong) -> ULong): ULong {\n var index = lastIndex\n if (index < 0)\n throw UnsupportedOperationException("Empty array can't be reduced.")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/>\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n * and calculates the next accumulator value.\n * \n * @sample

```

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samples.collections.Collections.Aggregates.reduceRight
*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UByteArray.reduceRight(operation: (UByte, acc: UByte) -> UByte): UByte {n var index = lastIndex\n if (index
< 0) throw UnsupportedOperationException("Empty array can't be reduced.")n var accumulator = get(index--)\n
while (index >= 0) {n accumulator = operation(get(index--), accumulator)\n }n return
accumulator\n}n/n/**n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element and current accumulator value.\n * \n * Throws an exception if this array is empty. If the
array can be empty in an expected way,\n * please use [reduceRightOrNull] instead. It returns `null` when its
receiver is empty.\n * \n * @param [operation] function that takes an element and current accumulator value,\n *
and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight
*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UShortArray.reduceRight(operation: (UShort, acc: UShort) -> UShort): UShort {n var index = lastIndex\n if
(index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")n var accumulator =
get(index--)\n while (index >= 0) {n accumulator = operation(get(index--), accumulator)\n }n return
accumulator\n}n/n/**n * Accumulates value starting with the last element and applying [operation] from right to
left\n * to each element with its index in the original array and current accumulator value.\n * \n * Throws an
exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight
*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UIntArray.reduceRightIndexed(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt {n var index = lastIndex\n
if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")n var accumulator =
get(index--)\n while (index >= 0) {n accumulator = operation(index, get(index), accumulator)\n --index\n
}n return accumulator\n}n/n/**n * Accumulates value starting with the last element and applying [operation]
from right to left\n * to each element with its index in the original array and current accumulator value.\n * \n *
Throws an exception if this array is empty. If the array can be empty in an expected way,\n * please use
[reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n * @param [operation]
function that takes the index of an element, the element itself and current accumulator value,\n * and calculates the
next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRight
*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
ULongArray.reduceRightIndexed(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong {n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")n var
accumulator = get(index--)\n while (index >= 0) {n accumulator = operation(index, get(index),
accumulator)\n --index\n }n return accumulator\n}n/n/**n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and
current accumulator value.\n * \n * Throws an exception if this array is empty. If the array can be empty in an
expected way,\n * please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n * \n
* @param [operation] function that takes the index of an element, the element itself and current accumulator
value,\n * and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.reduceRight
*\/n@SinceKotlin("1.3")n@ExperimentalUnsignedTypesn@kotlin.internal.InlineOnlynpublic inline fun
UByteArray.reduceRightIndexed(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte {n var index =
lastIndex\n if (index < 0) throw UnsupportedOperationException("Empty array can't be reduced.")n var
accumulator = get(index--)\n while (index >= 0) {n accumulator = operation(index, get(index),
accumulator)\n --index\n }n return accumulator\n}n/n/**n * Accumulates value starting with the last
element and applying [operation] from right to left\n * to each element with its index in the original array and

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current accumulator value.\n \* \n \* Throws an exception if this array is empty. If the array can be empty in an expected way,\n \* please use [reduceRightIndexedOrNull] instead. It returns `null` when its receiver is empty.\n \* \n \* @param [operation] function that takes the index of an element, the element itself and current accumulator value,\n \* and calculates the next accumulator value.\n \* \n \* @sample

samples.collections.Collections.Aggregates.reduceRight\n

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.reduceRightIndexed(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort {\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 the last\n * element and applying [operation] from right to left\n * to each element with its index in the original array and\n * current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that\n * takes the index of an element, the element itself and current accumulator value,\n * and calculates the next\n * accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
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*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUIntArray.reduceRightIndexedOrNull(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt? {\n var index =\n lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with\n * its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that\n * takes the index of an element, the element itself and current accumulator value,\n * and calculates the next\n * accumulator value.\n * \n * @sample
```

samples.collections.Collections.Aggregates.reduceRightOrNull\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nULongArray.reduceRightIndexedOrNull(operation: (index: Int, ULong, acc: ULong) -> ULong): ULong? {\n var\n index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with\n * its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that\n * takes the index of an element, the element itself and current accumulator value,\n * and calculates the next\n * accumulator value.\n * \n * @sample
```

samples.collections.Collections.Aggregates.reduceRightOrNull\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUByteArray.reduceRightIndexedOrNull(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte? {\n var\n index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element with\n * its index in the original array and current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that\n * takes the index of an element, the element itself and current accumulator value,\n * and calculates the next\n * accumulator value.\n * \n * @sample
```

samples.collections.Collections.Aggregates.reduceRightOrNull\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun\nUShortArray.reduceRightIndexedOrNull(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort? {\n var\n index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the last element and applying [operation] from right to left\n * to each element and\n * current accumulator value.\n * \n * Returns `null` if the array is empty.\n * \n * @param [operation] function that\n * takes an element and current accumulator value,\n * and calculates the next\n * accumulator value.\n * \n * @sample
```

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samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceRightOrNull(operation: (UInt, acc: UInt) -> UInt):
UInt? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n while (index
>= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n**\n*
Accumulates value starting with the last element and applying [operation] from right to left\n* to each element and
current accumulator value.\n* \n* Returns `null` if the array is empty.\n* \n* @param [operation] function that
takes an element and current accumulator value,\n* and calculates the next accumulator value.\n* \n* @sample
samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceRightOrNull(operation: (ULong, acc: ULong) ->
ULong): ULong? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n
while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n**\n* Accumulates value starting with the last element and applying [operation] from right to
left\n* to each element and current accumulator value.\n* \n* Returns `null` if the array is empty.\n* \n* @param
[operation] function that takes an element and current accumulator value,\n* and calculates the next accumulator
value.\n* \n* @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceRightOrNull(operation: (UByte, acc: UByte) ->
UByte): UByte? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n
while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n**\n* Accumulates value starting with the last element and applying [operation] from right to
left\n* to each element and current accumulator value.\n* \n* Returns `null` if the array is empty.\n* \n* @param
[operation] function that takes an element and current accumulator value,\n* and calculates the next accumulator
value.\n* \n* @sample samples.collections.Collections.Aggregates.reduceRightOrNull\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceRightOrNull(operation: (UShort, acc: UShort) ->
UShort): UShort? {\n var index = lastIndex\n if (index < 0) return null\n var accumulator = get(index--)\n
while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return
accumulator\n}\n\n**\n* Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n* to each element and current accumulator value that starts with [initial] value.\n* \n
* Note that `acc` value passed to [operation] function should not be mutated;\n* otherwise it would affect the
previous value in resulting list.\n* \n* @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n* \n* @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.runningFold(initial: R, operation: (acc: R, UInt) -> R): List<R> {\n if (isEmpty()) return
listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for
(element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n
return result\n}\n\n**\n* Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n* to each element and current accumulator value that starts with [initial] value.\n* \n
* Note that `acc` value passed to [operation] function should not be mutated;\n* otherwise it would affect the
previous value in resulting list.\n* \n* @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n* \n* @sample
samples.collections.Collections.Aggregates.runningFold\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.runningFold(initial: R, operation: (acc: R, ULong) -> R): List<R> {\n if (isEmpty()) return
listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for

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(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.runningFold\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UByteArray.runningFold(initial: R, operation: (acc: R, UByte) -> R): List<R> {\n if (isEmpty()) return
listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for
(element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n
return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n
* Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the
previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an
element, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningFold\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UShortArray.runningFold(initial: R, operation: (acc: R, UShort) -> R): List<R> {\n if (isEmpty()) return
listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n for
(element in this) {\n accumulator = operation(accumulator, element)\n result.add(accumulator)\n }\n
return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element, its index in the original array and current accumulator value that
starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n *
otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the
index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator
value.\n * \n * @sample samples.collections.Collections.Aggregates.runningFold\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
UIntArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {\n if (isEmpty())
return listOf(initial)\n val result = ArrayList<R>(size + 1).apply { add(initial) }\n var accumulator = initial\n
for (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.runningFold\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>
ULongArray.runningFoldIndexed(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.runningFold\n
*/\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R>

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ByteArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UByte) -> R): List<R> {
 if (isEmpty()) return listOf(initial)
 val result = ArrayList<R>(size + 1).apply { add(initial) }
 var accumulator = initial
 for (index in indices) {
 accumulator = operation(index, accumulator, this[index])
 result.add(accumulator)
 }
 return result
}

Returns a list containing successive accumulation values generated by applying [operation] from left to right to each element, its index in the original array and current accumulator value that starts with [initial] value.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes the index of an element, current accumulator value and the element itself, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.runningFold
*/
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun <R>
UShortArray.runningFoldIndexed(initial: R, operation: (index: Int, acc: R, UShort) -> 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 and current accumulator value that starts with the first element of this array.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.runningReduce
*/
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UIntArray.runningReduce(operation: (acc: UInt, UInt) -> UInt): List<UInt> {
 if (isEmpty()) return emptyList()
 var accumulator = this[0]
 val result = ArrayList<UInt>(size).apply { add(accumulator) }
 for (index in 1 until size) {
 accumulator = operation(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 and current accumulator value that starts with the first element of this array.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.runningReduce
*/
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
ULongArray.runningReduce(operation: (acc: ULong, ULong) -> ULong): List<ULong> {
 if (isEmpty()) return emptyList()
 var accumulator = this[0]
 val result = ArrayList<ULong>(size).apply { add(accumulator) }
 for (index in 1 until size) {
 accumulator = operation(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 and current accumulator value that starts with the first element of this array.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

@sample samples.collections.Collections.Aggregates.runningReduce
*/
@SinceKotlin("1.4")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.runningReduce(operation: (acc: UByte, UByte) -> UByte): List<UByte> {
 if (isEmpty()) return emptyList()
 var accumulator = this[0]
 val result = ArrayList<UByte>(size).apply { add(accumulator) }
 for (index in 1 until size) {
 accumulator = operation(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 and current accumulator value that starts with the first element of this array.

Note that `acc` value passed to [operation] function should not be mutated; otherwise it would affect the previous value in resulting list.

@param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.

@sample

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samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.runningReduce(operation: (acc: UShort, UShort) -> UShort): List<UShort> {\n if (isEmpty()) return
emptyList()\n var accumulator = this[0]\n val result = ArrayList<UShort>(size).apply { add(accumulator) }\n
for (index in 1 until size) {\n accumulator = operation(accumulator, this[index])\n result.add(accumulator)\n
 }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying
[operation] from left to right\n * to each element, its index in the original array and current accumulator value that
starts with the first element of this array.\n * \n * Note that `acc` value passed to [operation] function should not be
mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next
accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.runningReduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): List<UInt> {\n if (isEmpty())
return emptyList()\n var accumulator = this[0]\n val result = ArrayList<UInt>(size).apply { add(accumulator)
}\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes the index of an element, current accumulator value\n * and the element
itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.runningReduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): List<ULong> {\n if
(isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<ULong>(size).apply {
add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n
result.add(accumulator)\n }\n return result\n}\n\n/**\n * Returns a list containing successive accumulation
values generated by applying [operation] from left to right\n * to each element, its index in the original array and
current accumulator value that starts with the first element of this array.\n * \n * Note that `acc` value passed to
[operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n *
@param [operation] function that takes the index of an element, current accumulator value\n * and the element
itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.runningReduce\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.runningReduceIndexed(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.runningReduce\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.runningReduceIndexed(operation: (index: Int, acc: UShort, UShort) -> UShort): List<UShort> {\n if
(isEmpty()) return emptyList()\n var accumulator = this[0]\n val result = ArrayList<UShort>(size).apply {
add(accumulator) }\n for (index in 1 until size) {\n accumulator = operation(index, accumulator, this[index])\n

```

result.add(accumulator)\n } \n return result\n}\n\n/\*\*\n \* Returns a list containing successive accumulation values generated by applying [operation] from left to right\n \* to each element and current accumulator value that starts with [initial] value.\n \* \n \* Note that `acc` value passed to [operation] function should not be mutated;\n \* otherwise it would affect the previous value in resulting list.\n \* \n \* @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n \* \n \* @sample samples.collections.Collections.Aggregates.scan\n

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.scan(initial: R, operation: (acc: R, UInt) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.scan(initial: R, operation: (acc: R, ULong) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.scan(initial: R, operation: (acc: R, UByte) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes current accumulator value and an element, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.scan(initial: R, operation: (acc: R, UShort) -> R): List<R> {\n return runningFold(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.scanIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n * \n * @sample samples.collections.Collections.Aggregates.scan\n
```

```
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
```

```

@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.scanIndexed(initial: R, operation: (index: Int, acc:
R, ULong) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list
containing successive accumulation values generated by applying [operation] from left to right\n * to each element,
its index in the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc`
value passed to [operation] function should not be mutated;\n * otherwise it would affect the previous value in
resulting list.\n * \n * @param [operation] function that takes the index of an element, current accumulator value\n *
and the element itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.scanIndexed(initial: R, operation: (index: Int, acc:
R, UByte) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns a list containing
successive accumulation values generated by applying [operation] from left to right\n * to each element, its index in
the original array and current accumulator value that starts with [initial] value.\n * \n * Note that `acc` value passed
to [operation] function should not be mutated;\n * otherwise it would affect the previous value in resulting list.\n *
\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element
itself, and calculates the next accumulator value.\n * \n * @sample
samples.collections.Collections.Aggregates.scan\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalStdlibApi::class)\n
@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.scanIndexed(initial: R, operation: (index: Int, acc:
R, UShort) -> R): List<R> {\n return runningFoldIndexed(initial, operation)\n}\n\n/**\n * Returns the sum of all
values produced by [selector] function applied to each element in the array.\n * \n@Deprecated("\nUse sumOf
instead.\n", ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
\n"1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic 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@Deprecated("\nUse sumOf instead.\n",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
\n"1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic 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@Deprecated("\nUse sumOf instead.\n",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
\n"1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic 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@Deprecated("\nUse sumOf instead.\n",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
\n"1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic 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@Deprecated("\nUse sumOf instead.\n",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
\n"1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic 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@Deprecated("\nUse sumOf instead.\n",
ReplaceWith("this.sumOf(selector)"))\n@DeprecatedSinceKotlin(warningSince =
\n"1.5")\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

```

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ULongArray.sumByDouble(selector: (ULong) -> Double): Double {
 var sum: Double = 0.0
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
* Returns the sum of all values produced by [selector] function applied to each element in the array.
* @Deprecated("Use sumOf instead.", ReplaceWith("this.sumOf(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.5")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UByteArray.sumByDouble(selector: (UByte) -> Double): Double {
 var sum: Double = 0.0
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
* Returns the sum of all values produced by [selector] function applied to each element in the array.
* @Deprecated("Use sumOf instead.", ReplaceWith("this.sumOf(selector)"))
@DeprecatedSinceKotlin(warningSince = "1.5")
@SinceKotlin("1.3")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun
UShortArray.sumByDouble(selector: (UShort) -> Double): Double {
 var sum: Double = 0.0
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
* Returns the sum of all values produced by [selector] function applied to each element in the array.
* @SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfDouble")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.sumOf(selector: (UInt) -> Double): Double {
 var sum: Double = 0.toDouble()
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
* Returns the sum of all values produced by [selector] function applied to each element in the array.
* @SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfDouble")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.sumOf(selector: (ULong) -> Double): Double {
 var sum: Double = 0.toDouble()
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
* Returns the sum of all values produced by [selector] function applied to each element in the array.
* @SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfDouble")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UByteArray.sumOf(selector: (UByte) -> Double): Double {
 var sum: Double = 0.toDouble()
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
* Returns the sum of all values produced by [selector] function applied to each element in the array.
* @SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfDouble")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UShortArray.sumOf(selector: (UShort) -> Double): Double {
 var sum: Double = 0.toDouble()
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
* Returns the sum of all values produced by [selector] function applied to each element in the array.
* @SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfInt")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun UIntArray.sumOf(selector: (UInt) -> Int): Int {
 var sum: Int = 0.toInt()
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
* Returns the sum of all values produced by [selector] function applied to each element in the array.
* @SinceKotlin("1.4")
@OptIn(kotlin.experimental.ExperimentalTypeInference::class)
@OverloadResolutionByLambdaReturnType
@Suppress("INAPPLICABLE_JVM_NAME")
@kotlin.jvm.JvmName("sumOfInt")
@ExperimentalUnsignedTypes
@kotlin.internal.InlineOnly
public inline fun ULongArray.sumOf(selector: (ULong) -> Int): Int {
 var sum: Int = 0.toInt()
 for (element in this) {
 sum += selector(element)
 }
 return sum
}
* Returns the sum of all values produced by [selector] function applied to each element in

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the array.\n

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfInt")\n\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector:\n(UByte) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in\n the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfInt")\n\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector:\n(UShort) -> Int): Int {\n var sum: Int = 0.toInt()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in\n the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfLong")\n\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumOf(selector: (UInt)\n-> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in\n the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfLong")\n\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumOf(selector:\n(ULong) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum +=\n selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfLong")\n\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumOf(selector:\n(UByte) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum +=\n selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.4")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfLong")\n\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sumOf(selector:\n(UShort) -> Long): Long {\n var sum: Long = 0.toLong()\n for (element in this) {\n sum +=\n selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function\n applied to each element in the array.\n
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*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfUInt")\n\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline\nOnly\npublic inline fun UIntArray.sumOf(selector: (UInt) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for\n (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values\n produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution\nByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfUInt")\n\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline\nOnly\npublic inline fun ULongArray.sumOf(selector: (ULong) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n for\n (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all\n
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values produced by [selector] function applied to each element in the array.\n

```
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfUInt")\n
\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline
Only\npublic inline fun UByteArray.sumOf(selector: (UByte) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n
for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all
values produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfUShort")\n
\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inline
Only\npublic inline fun UShortArray.sumOf(selector: (UShort) -> UInt): UInt {\n var sum: UInt = 0.toUInt()\n
for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all
values produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong")\n
\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inli
neOnly\npublic inline fun UIntArray.sumOf(selector: (UInt) -> ULong): ULong {\n var sum: ULong =
0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns
the sum of all values produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong")\n
\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inli
neOnly\npublic inline fun ULongArray.sumOf(selector: (ULong) -> ULong): ULong {\n var sum: ULong =
0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns
the sum of all values produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong")\n
\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inli
neOnly\npublic inline fun UByteArray.sumOf(selector: (UByte) -> ULong): ULong {\n var sum: ULong =
0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns
the sum of all values produced by [selector] function applied to each element in the array.\n
```

```
*\n@SinceKotlin("1.5")\n@OptIn(kotlin.experimental.ExperimentalTypeInference::class)\n@OverloadResolution
ByLambdaReturnType\n@Suppress("INAPPLICABLE_JVM_NAME")\n@kotlin.jvm.JvmName("sumOfULong")\n
\n@ExperimentalUnsignedTypes\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.Inli
neOnly\npublic inline fun UShortArray.sumOf(selector: (UShort) -> ULong): ULong {\n var sum: ULong =
0.toULong()\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns a
list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has
length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other: Array<out
R>): List<Pair<UInt, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from
the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest
collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other:
Array<out R>): List<Pair<ULong, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of
pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has
length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other: Array<out
R>): List<Pair<UByte, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built
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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>\nUIntArray.zip(other: Iterable<R>, transform: (a: UInt, b: R) -> V): List<V> {\n val arraySize = size\n val list =\n 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>\nULongArray.zip(other: Iterable<R>, transform: (a: ULong, b: R) -> V): List<V> {\n val arraySize = size\n val list =\n 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>\nUByteArray.zip(other: Iterable<R>, transform: (a: UByte, b: R) -> V): List<V> {\n val arraySize = size\n val list =\n 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>\nUShortArray.zip(other: Iterable<R>, transform: (a: UShort, b: R) -> V): List<V> {\n val arraySize = size\n val list =\n 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\n samples.collections.Iterables.Operations.zipIterable\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.zip(other: UIntArray):\nList<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):\nList<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):\nList<Pair<UByte, UByte>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n
```

```
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.zip(other: UShortArray):\nList<Pair<UShort, UShort>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample\n samples.collections.Iterables.Operations.zipIterableWithTransform\n
```

```

*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UIntArray.zip(other: UIntArray, transform: (a: UInt, b: UInt) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
ULongArray.zip(other: ULongArray, transform: (a: ULong, b: ULong) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UByteArray.zip(other: UByteArray, transform: (a: UByte, b: UByte) -> V): List<V> {\n val size = minOf(size,
other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array
with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned
list has length of the shortest array.\n * \n * @sample
samples.collections.Iterables.Operations.zipIterableWithTransform\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V>
UShortArray.zip(other: UShortArray, transform: (a: UShort, b: UShort) -> 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 the sum of all elements in the array.\n
*\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedT
ypes::class)\npublic fun Array<out 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 array.\n
*\n@kotlin.jvm.JvmName("sumOfULong")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Array<out 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 array.\n
*\n@kotlin.jvm.JvmName("sumOfUByte")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Array<out 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 array.\n
*\n@kotlin.jvm.JvmName("sumOfUShort")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Array<out UShort>.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 array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.sum(): UInt {\n return storage.sum().toUInt()\n}\n\n/**\n * Returns the sum of all elements in the
array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.sum(): ULong {\n return storage.sum().toULong()\n}\n\n/**\n * Returns the sum of all elements in
the array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UByteArray.sum(): UInt {\n return sumOf { it.toUInt() }\n}\n\n/**\n * Returns the sum of all elements in the
array.\n
*\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.sum(): UInt {\n return sumOf { it.toUInt() }\n}\n\n"/**\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n
*\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("UCollectionsKt")\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 an array of UByte containing all of the
elements of this collection.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Collection<UByte>.toUByteArray(): UByteArray {\n val result = UByteArray(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 UInt containing
all of the elements of this collection.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Collection<UInt>.toUIntArray(): UIntArray {\n val result = UIntArray(size)\n var index = 0\n for (element in
this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of ULong containing all of the
elements of this collection.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Collection<ULong>.toULongArray(): ULongArray {\n val result = ULongArray(size)\n var index = 0\n for
(element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of UShort
containing all of the elements of this collection.\n */\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic fun
Collection<UShort>.toUShortArray():
UShortArray {\n val result = UShortArray(size)\n var index = 0\n for (element in this)\n result[index++] =
element\n return result\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedT
ypes::class)\npublic fun Iterable<UInt>.sum(): UInt {\n var sum: UInt = 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("sumOfULong")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Iterable<ULong>.sum(): ULong {\n var sum: ULong = 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("sumOfUByte")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Iterable<UByte>.sum(): UInt {\n var sum: UInt = 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("sumOfUShort")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsigned
Types::class)\npublic fun Iterable<UShort>.sum(): UInt {\n var sum: UInt = 0\n for (element in this) {\n
sum += element\n }\n return sum\n}\n\n"/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("UComparisonsKt")\n\npackage
kotlin.comparisons\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nimport kotlin.random.*\n\n/**\n * Returns the
greater of two values.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
maxOf(a: UInt, b: UInt): UInt {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
maxOf(a: ULong, b: ULong): ULong {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
maxOf(a: UByte, b: UByte): UByte {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
maxOf(a: UShort, b: UShort): UShort {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun
maxOf(a: UInt, b: UInt, c: UInt): UInt {\n return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns
the greater of three values.\n */\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic 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 */

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*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun maxOf(a: UByte, b: UByte, c: UByte): UByte {\n return maxOf(a, maxOf(b, c))\n}\n\n/**\n *
Returns the greater of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun maxOf(a: UShort, b: UShort, c: UShort): UShort {\n return maxOf(a, maxOf(b, c))\n}\n\n/**\n *
Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
maxOf(a: UInt, vararg other: UInt): UInt {\n var max = a\n for (e in other) max = maxOf(max, e)\n return
max\n}\n\n/**\n * Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: ULong, vararg other: ULong):
ULong {\n var max = a\n for (e in other) max = maxOf(max, e)\n return max\n}\n\n/**\n * Returns the greater
of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UByte,
vararg other: UByte): UByte {\n var max = a\n for (e in other) max = maxOf(max, e)\n return max\n}\n\n/**\n *
Returns the greater of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
maxOf(a: UShort, vararg other: UShort): UShort {\n var max = a\n for (e in other) max = maxOf(max, e)\n
return max\n}\n\n/**\n * Returns the smaller of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: UInt, b:
UInt): UInt {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: ULong,
b: ULong): ULong {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: UByte,
b: UByte): UByte {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun minOf(a: UShort,
b: UShort): UShort {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun minOf(a: UInt, b: UInt, c: UInt): UInt {\n return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns
the smaller of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun minOf(a: ULong, b: ULong, c: ULong): ULong {\n return minOf(a, minOf(b, c))\n}\n\n/**\n *
Returns the smaller of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun minOf(a: UByte, b: UByte, c: UByte): UByte {\n return minOf(a, minOf(b, c))\n}\n\n/**\n *
Returns the smaller of three values.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\
npublic inline fun minOf(a: UShort, b: UShort, c: UShort): UShort {\n return minOf(a, minOf(b, c))\n}\n\n/**\n *
Returns the smaller of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
minOf(a: UInt, vararg other: UInt): UInt {\n var min = a\n for (e in other) min = minOf(min, e)\n return
min\n}\n\n/**\n * Returns the smaller of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: ULong, vararg other: ULong):
ULong {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n * Returns the smaller
of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UByte,
vararg other: UByte): UByte {\n var min = a\n for (e in other) min = minOf(min, e)\n return min\n}\n\n/**\n *
Returns the smaller of the given values.\n
*\n@SinceKotlin("1.4")\n@ExperimentalUnsignedTypes\npublic fun
minOf(a: UShort, vararg other: UShort): UShort {\n var min = a\n for (e in other) min = minOf(min, e)\n
return min\n}\n\n", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("URangesKt")\n\npackage
kotlin.ranges\n\n/\n\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nimport kotlin.random.*\n\n/**\n * Returns a

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random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
npublic inline fun UIntRange.random(): UInt {\n return random(Random)\n}\n\n/**\n * Returns a random element
from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
npublic inline fun ULongRange.random(): ULong {\n return random(Random)\n}\n\n/**\n * Returns a random
element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if
this range is empty.\n * \n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n
npublic fun UIntRange.random(random: Random): UInt {\n try {\n return random.nextUInt(this)\n } catch(e:
IllegalArgumentException) {\n throw NoSuchElementException(e.message)\n }\n}\n\n/**\n * Returns a
random element from this range using the specified source of randomness.\n * \n * @throws
IllegalArgumentException if this range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n
npublic fun ULongRange.random(random: Random): ULong {\n try {\n return random.nextULong(this)\n } catch(e:
IllegalArgumentException) {\n throw NoSuchElementException(e.message)\n }\n}\n\n/**\n * Returns a
random element from this range, or `null` if this range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
npublic inline fun UIntRange.randomOrNull(): UInt? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range, or `null` if this
range is empty.\n * \n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
npublic inline fun ULongRange.randomOrNull(): ULong? {\n return randomOrNull(Random)\n}\n\n/**\n * Returns a random element from this range using the
specified source of randomness, or `null` if this range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n
npublic fun UIntRange.randomOrNull(random: Random): UInt? {\n if
(isEmpty())\n return null\n return random.nextUInt(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("1.5")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n
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@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
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@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\n
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@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n
npublic operator fun UIntRange.contains(value: UByte): Boolean {\n return contains(value.toUInt())\n}\n\n/**\n * Checks if the
specified [value] belongs to this range.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n
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@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n
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@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n
npublic operator fun

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UIntRange.contains(value: ULong): Boolean {n return (value shr UInt.SIZE_BITS) == 0uL &&
contains(value.toUInt())}n/n/**n * Checks if the specified [value] belongs to this range.n
*/n@SinceKotlin("1.5")n@WasExperimental(ExperimentalUnsignedTypes::class)npublic operator fun
UIntRange.contains(value: UShort): Boolean {n return contains(value.toUInt())}n/n/**n * Checks if the
specified [value] belongs to this range.n
*/n@SinceKotlin("1.5")n@WasExperimental(ExperimentalUnsignedTypes::class)npublic operator fun
ULongRange.contains(value: UShort): Boolean {n return contains(value.toULong())}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
*/n@SinceKotlin("1.5")n@WasExperimental(ExperimentalUnsignedTypes::class)npublic infix fun
UByte.downTo(to: UByte): UIntProgression {n return UIntProgression.fromClosedRange(this.toUInt(),
to.toUInt(), -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
*/n@SinceKotlin("1.5")n@WasExperimental(ExperimentalUnsignedTypes::class)npublic infix fun
UInt.downTo(to: UInt): UIntProgression {n return UIntProgression.fromClosedRange(this, 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 */n@SinceKotlin("1.5")n@WasExperimental(ExperimentalUnsignedTypes::class)npublic infix fun
ULong.downTo(to: ULong): ULongProgression {n return ULongProgression.fromClosedRange(this, to, -
1L)}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
*/n@SinceKotlin("1.5")n@WasExperimental(ExperimentalUnsignedTypes::class)npublic infix fun
UShort.downTo(to: UShort): UIntProgression {n return UIntProgression.fromClosedRange(this.toUInt(),
to.toUInt(), -1)}n/n/**n * Returns a progression that goes over the same range in the opposite direction with the
same step.n */n@SinceKotlin("1.5")n@WasExperimental(ExperimentalUnsignedTypes::class)npublic fun
UIntProgression.reversed(): UIntProgression {n return UIntProgression.fromClosedRange(last, first, -
step)}n/n/**n * Returns a progression that goes over the same range in the opposite direction with the same
step.n */n@SinceKotlin("1.5")n@WasExperimental(ExperimentalUnsignedTypes::class)npublic fun
ULongProgression.reversed(): ULongProgression {n return ULongProgression.fromClosedRange(last, first, -
step)}n/n/**n * Returns a progression that goes over the same range with the given step.n
*/n@SinceKotlin("1.5")n@WasExperimental(ExperimentalUnsignedTypes::class)npublic infix fun
UIntProgression.step(step: Int): UIntProgression {n checkStepIsPositive(step > 0, step)n return
UIntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)}n/n/**n * Returns a progression
that goes over the same range with the given step.n
*/n@SinceKotlin("1.5")n@WasExperimental(ExperimentalUnsignedTypes::class)npublic infix fun
ULongProgression.step(step: Long): ULongProgression {n checkStepIsPositive(step > 0, step)n return
ULongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)}n/n/**n * Returns a range from
this value up to but excluding the specified [to] value.n * n * If the [to] value is less than or equal to `this` value,
then the returned range is empty.n
*/n@SinceKotlin("1.5")n@WasExperimental(ExperimentalUnsignedTypes::class)npublic infix fun
UByte.until(to: UByte): UIntRange {n if (to <= UByte.MIN_VALUE) return UIntRange.EMPTYn return
this.toUInt() .. (to - 1u).toUInt())}n/n/**n * Returns a range from this value up to but excluding the specified [to]
value.n * n * If the [to] value is less than or equal to `this` value, then the returned range is empty.n
*/n@SinceKotlin("1.5")n@WasExperimental(ExperimentalUnsignedTypes::class)npublic infix fun UInt.until(to:
UInt): UIntRange {n if (to <= UInt.MIN_VALUE) return UIntRange.EMPTYn return this .. (to -
1u).toUInt())}n/n/**n * Returns a range from this value up to but excluding the specified [to] value.n * n * If the

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[to] value is less than or equal to `this` value, then the returned range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
ULong.until(to: ULong): ULongRange {\n if (to <= ULong.MIN_VALUE) return ULongRange.EMPTY\n
return this .. (to - 1u).toULong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to]
value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic infix fun
UShort.until(to: UShort): UIntRange {\n if (to <= UShort.MIN_VALUE) return UIntRange.EMPTY\n return
this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Ensures that this value is not less than the specified
[minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the
[minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UInt.coerceAtLeast(minimumValue: UInt): UInt {\n return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value
if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULong.coerceAtLeast(minimumValue: ULong): ULong {\n return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value
if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UByte.coerceAtLeast(minimumValue: UByte): UByte {\n return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value
if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UShort.coerceAtLeast(minimumValue: UShort): UShort {\n return if (this < minimumValue) minimumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UInt.coerceAtMost(maximumValue: UInt): UInt {\n return if (this > maximumValue) maximumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULong.coerceAtMost(maximumValue: ULong): ULong {\n return if (this > maximumValue) maximumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UByte.coerceAtMost(maximumValue: UByte): UByte {\n return if (this > maximumValue) maximumValue else
this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this
value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample
samples.comparisons.ComparableOps.coerceAtMostUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UShort.coerceAtMost(maximumValue: UShort): UShort {\n return if (this > maximumValue) maximumValue
else this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n

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* @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or
[maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UInt.coerceIn(minimumValue: UInt, maximumValue: UInt): UInt {\n if (minimumValue > maximumValue)
throw IllegalArgumentException("Cannot coerce value to an empty range: maximum $maximumValue is less than
minimum $minimumValue.")\n if (this < minimumValue) return minimumValue\n if (this > maximumValue)
return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the specified range
[minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value
is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
ULong.coerceIn(minimumValue: ULong, maximumValue: ULong): ULong {\n if (minimumValue >
maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum
$maximumValue is less than minimum $minimumValue.")\n if (this < minimumValue) return minimumValue\n
if (this > maximumValue) return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the
specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or
[minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than
[maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UByte.coerceIn(minimumValue: UByte, maximumValue: UByte): UByte {\n if (minimumValue >
maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum
$maximumValue is less than minimum $minimumValue.")\n if (this < minimumValue) return minimumValue\n
if (this > maximumValue) return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the
specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or
[minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than
[maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
UShort.coerceIn(minimumValue: UShort, maximumValue: UShort): UShort {\n if (minimumValue >
maximumValue) throw IllegalArgumentException("Cannot coerce value to an empty range: maximum
$maximumValue is less than minimum $minimumValue.")\n if (this < minimumValue) return minimumValue\n
if (this > maximumValue) return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the
specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than
`range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample
samples.comparisons.ComparableOps.coerceInUnsigned\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\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("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\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 2010-2021 JetBrains

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```
\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("USequencesKt")\n\npackage\nkotlin.sequences\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See:\nhttps://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\nimport kotlin.random.\n\n * Returns the\nsum of all elements in the sequence.\n * The operation is _terminal_.
```

```
*\n@kotlin.jvm.JvmName("sumOfUInt")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\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 * Returns the sum of all elements in the sequence.\n * The operation is _terminal_.
```

```
*\n@kotlin.jvm.JvmName("sumOfULong")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\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 * Returns the sum of all elements in the sequence.\n * The operation is _terminal_.
```

```
*\n@kotlin.jvm.JvmName("sumOfUByte")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\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 * Returns the sum of all elements in the sequence.\n * The operation is _terminal_.
```

```
*\n@kotlin.jvm.JvmName("sumOfUShort")\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun Sequence<UShort>.sum(): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n"/\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
```

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license/LICENSE.txt file.\n *\npackage kotlin\n\npublic expect open class Error : Throwable {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\npublic expect open class Exception : Throwable {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\npublic expect open class RuntimeException : Exception {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\npublic expect open class IllegalArgumentException : RuntimeException {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\npublic expect open class IllegalStateException : RuntimeException {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\npublic expect open class IndexOutOfBoundsException : RuntimeException {\n constructor()\n constructor(message: String?)\n}\n\npublic expect open class ConcurrentModificationException :
```

```
RuntimeException {\n constructor()\n constructor(message: String?)\n @Deprecated("The constructor is not supported on all platforms and will be removed from kotlin-stdlib-common soon.", level =
```

```
DeprecationLevel.ERROR)\n constructor(message: String?, cause: Throwable?)\n @Deprecated("The constructor is not supported on all platforms and will be removed from kotlin-stdlib-common soon.", level = DeprecationLevel.ERROR)\n constructor(cause: Throwable?)\n}\n\npublic expect open class
```

```
UnsupportedOperationException : RuntimeException {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\npublic expect open
```

```
class NumberFormatException : IllegalArgumentException {\n constructor()\n constructor(message: String?)\n}\n\npublic expect open class NullPointerException : RuntimeException {\n constructor()\n constructor(message: String?)\n}\n\npublic expect open class ClassCastException : RuntimeException {\n constructor()\n constructor(message: String?)\n}\n\npublic expect open class AssertionError : Error {\n constructor()\n constructor(message: Any?)\n}\n\npublic expect open class NoSuchElementException :
```

```
RuntimeException {\n constructor()\n constructor(message: String?)\n}\n\n@SinceKotlin("1.3")\npublic expect open class ArithmeticException : RuntimeException {\n constructor()\n constructor(message:
```

```

String?)\n}\n\n@Deprecated("This exception type is not supposed to be thrown or caught in common code and will
be removed from kotlin-stdlib-common soon.", level = DeprecationLevel.ERROR)\npublic expect open class
NoWhenBranchMatchedException : RuntimeException {\n constructor()\n constructor(message: String?)\n
constructor(message: String?, cause: Throwable?)\n constructor(cause: Throwable?)\n}\n\n@Deprecated("This
exception type is not supposed to be thrown or caught in common code and will be removed from kotlin-stdlib-
common soon.", level = DeprecationLevel.ERROR)\npublic expect class UninitializedPropertyAccessException :
RuntimeException {\n constructor()\n constructor(message: String?)\n constructor(message: String?, cause:
Throwable?)\n constructor(cause: Throwable?)\n}\n\n/**\n * Thrown after invocation of a function or property
that was expected to return `Nothing`, but returned something instead.\n
\n\n * Returns the detailed description of this throwable with its stack trace.\n * The detailed description includes:\n * - the short
description (see [Throwable.toString]) of this throwable;\n * - the complete stack trace;\n * - detailed descriptions of
the exceptions that were [suppressed][suppressedExceptions] in order to deliver this exception;\n * - the detailed
description of each throwable in the [Throwable.cause] chain.\n */\n@SinceKotlin("1.4")\n@PublishedApi\ninternal class KotlinNothingValueException : RuntimeException {\n
constructor() : super()\n constructor(message: String?) : super(message)\n constructor(message: String?, cause:
Throwable?) : super(message, cause)\n constructor(cause: Throwable?) : super(cause)\n}\n\n/**\n * Returns the
detailed description of this throwable with its stack trace.\n * The detailed description includes:\n * - the short
description (see [Throwable.toString]) of this throwable;\n * - the complete stack trace;\n * - detailed descriptions of
the exceptions that were [suppressed][suppressedExceptions] in order to deliver this exception;\n * - the detailed
description of each throwable in the [Throwable.cause] chain.\n */\n@SinceKotlin("1.4")\npublic expect fun
Throwable.stackTraceToString(): String\n\n/**\n * Prints the [detailed description][Throwable.stackTraceToString]
of this throwable to the standard output or standard error output.\n
\n\n * When supported by the platform, adds the specified exception to the
list of exceptions that were\n * suppressed in order to deliver this exception.\n
\n\n * Returns a list of all exceptions that were suppressed in
order to deliver this exception.\n * The list can be empty:\n * - if no exceptions were suppressed;\n * - if the
platform doesn't support suppressed exceptions;\n * - if this [Throwable] instance has disabled the suppression.\n
\n\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.js\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n * Gives a declaration (a function, a property or a
class) specific name in JavaScript.\n */\n@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR,
PROPERTY_GETTER, PROPERTY_SETTER)\n@OptionalExpectation\npublic expect annotation class
JsName(val name: String)\n\n/**\n * Marks experimental JS export annotations.\n * Note that behavior of these
annotations will likely be changed in the future.\n * Usages of such annotations will be reported as warnings
unless an explicit opt-in with\n * the [OptIn] annotation, e.g. `@OptIn(ExperimentalJsExport::class)`,\n * or with
the `--opt-in=kotlin.js.ExperimentalJsExport` compiler option is given.\n */\n@RequiresOptIn(level =
RequiresOptIn.Level.WARNING)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Since
Kotlin("1.4")\npublic annotation class ExperimentalJsExport\n\n/**\n * Exports top-level declaration on JS
platform.\n * Compiled module exposes declarations that are marked with this annotation without name
mangling.\n * This annotation can be applied to either files or top-level declarations.\n * It is currently
prohibited to export the following kinds of declarations:\n * * `expect` declarations\n * * inline functions with
reified type parameters\n * * suspend functions\n * * secondary constructors without `@JsName`\n * *
extension properties\n * * enum classes\n * * annotation classes\n * Signatures of exported declarations must
only contain "exportable" types:\n * * `dynamic`, `Any`, `String`, `Boolean`, `Byte`, `Short`, `Int`, `Float`,
`Double`\n * * `BooleanArray`, `ByteArray`, `ShortArray`, `IntArray`, `FloatArray`, `DoubleArray`\n * *
`Array<exportable-type>`\n * * Function types with exportable parameters and return types\n * * `external` or
`@JsExport` classes and interfaces\n * * Nullable counterparts of types above\n * * Unit return type. Must not be
nullable\n * This annotation is experimental, meaning that restrictions mentioned above are subject to change.\n
*/\n@ExperimentalJsExport\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY,

```

FUNCTION, FILE)\n@SinceKotlin("1.4")\n@OptionalExpectation\npublic expect annotation class JsExport(),"/\*\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\npackage kotlin.io\n\n/\*\* Prints the line separator to the standard output stream. \*/\npublic expect fun println()\n\n/\*\* Prints the given [message] and the line separator to the standard output stream. \*/\npublic expect fun println(message: Any?)\n\n/\*\* Prints the given [message] to the standard output stream. \*/\npublic expect fun print(message: Any?)\n\n/\*\* Reads a line of input from the standard input stream and returns it,\n \* or throws a [RuntimeException] if EOF has already been reached when [readLn] is called.\n \* LF or CRLF is treated as the line terminator. Line terminator is not included in the returned string.\n \* Currently this function is not supported in Kotlin/JS and throws [UnsupportedOperationException].\n \*/\n@SinceKotlin("1.6")\npublic expect fun readLn(): String\n\n/\*\* Reads a line of input from the standard input stream and returns it,\n \* or return `null` if EOF has already been reached when [readLnOrNull] is called.\n \* LF or CRLF is treated as the line terminator. Line terminator is not included in the returned string.\n \* Currently this function is not supported in Kotlin/JS and throws [UnsupportedOperationException].\n \*/\n@SinceKotlin("1.6")\npublic expect fun readLnOrNull(): String?\n\ninternal class ReadAfterEOFException(message: String?) : RuntimeException(message)\n\ninternal expect interface Serializable\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.collections\n\nimport kotlin.internal.PlatformDependent\n\n/\*\*\n \* Classes that inherit from this interface can be represented as a sequence of elements that can\n \* be iterated over.\n \* @param T the type of element being iterated over. The iterator is covariant in its element type.\n \*/\npublic interface Iterable<out T> {\n\n /\*\*\n \* Returns an iterator over the elements of this object.\n \*/\n public operator fun iterator(): Iterator<T>\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 \* @param T the type of element being iterated over. The mutable iterator is invariant in its element type.\n \*/\n public interface MutableIterable<out T> : Iterable<T> {\n\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 \* 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 in its element type.\n \*/\n public interface Collection<out E> : Iterable<E> {\n\n // Query Operations\n\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 /\*\*\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 /\*\*\n \* A generic collection of elements that supports adding and removing elements.\n \* @param E the type of elements contained in the collection. The mutable collection is invariant in its element type.\n \*/\n public interface MutableCollection<E> : Collection<E>, MutableIterable<E> {\n\n // Query Operations\n\n override fun iterator(): MutableIterator<E>\n\n // Modification Operations\n\n /\*\*\n \* Adds the specified element to the collection.\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 \* @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 /\*\*\n \* Adds all of the elements of the specified collection to this collection.\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 \* @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\n * `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 * 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 in its element type.\n */\n\n public interface List<out E> : Collection<E> {\n // Query Operations\n\n override val size: Int\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 // Positional Access Operations\n\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 /**\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 /**\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 /**\n * Returns a view of the portion of this list between the specified [fromIndex] (inclusive) and [toIndex] (exclusive).\n * The returned list is backed by this list, so non-structural changes in the returned list are reflected in this list, and vice-versa.\n *\n * Structural changes in the base list make the behavior of the view undefined.\n *\n public fun subList(fromIndex: Int, toIndex: Int): List<E>\n\n /**\n * A generic ordered collection of elements that supports adding and removing elements.\n * @param E the type of elements contained in the list. The mutable list is invariant in its element type.\n */\n\n public interface MutableList<E> : List<E>, MutableCollection<E> {\n // Modification Operations\n\n /**\n * Adds the specified element to the end of this list.\n *\n * @return `true` because the list is always modified as the result of this operation.\n *\n override fun add(element: E): Boolean\n\n override fun remove(element: E): Boolean\n\n // Bulk Modification Operations\n\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 /**\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\n override fun listIterator(): MutableListIterator<E>\n\n override fun listIterator(index: Int): MutableListIterator<E>\n\n // View\n\n override fun subList(fromIndex: Int, toIndex: Int): MutableList<E>\n\n /**\n * A generic unordered collection of elements that does not support duplicate elements.\n * Methods in this interface support only read-only access to the set;\n * read/write access is supported through the [MutableSet] interface.\n * @param E the type of elements contained in the set. The set is covariant in its element type.\n */\n\n public interface Set<out E> : Collection<E> {\n // Query Operations\n\n override val size: Int\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 * A generic unordered collection of

```

elements that does not support duplicate elements, and supports adding and removing elements.

`@param E` the type of elements contained in the set. The mutable set is invariant in its element type.

```

public interface
MutableSet<E> : Set<E>, MutableCollection<E> {
 // Query Operations
 override fun iterator():
MutableIterator<E>
 // Modification Operations
 /**
 * Adds the specified element to the set.
 * @return `true` if the element has been added, `false` if the element is already contained in the set.
 */
 override fun add(element: E): Boolean
 override fun remove(element: E): Boolean
 // Bulk Modification
 Operations
 override fun addAll(elements: Collection<E>): Boolean
 override fun removeAll(elements:
Collection<E>): Boolean
 override fun retainAll(elements: Collection<E>): Boolean
 override fun clear():
Unit
}

```

A collection that holds pairs of objects (keys and values) and supports efficiently retrieving the value corresponding to each key. Map keys are unique; the map holds only one value for each key.

Methods in this interface support only read-only access to the map; read-write access is supported through the [MutableMap] interface.

`@param K` the type of map keys. The map is invariant in its key type, as it can accept key as a parameter (of [containsKey] for example) and return it in [keys] set.

`@param V` the type of map values. The map is covariant in its value type.

```

public interface Map<K, out V> {
 // Query Operations
 /**
 * Returns the number of key/value pairs in the map.
 */
 public val size: Int
 /**
 * Returns `true` if the map is empty (contains no elements), `false` otherwise.
 */
 public fun isEmpty(): Boolean
 /**
 * Returns `true` if the map contains the specified [key].
 */
 public fun containsKey(key: K): Boolean
 /**
 * Returns `true` if the map maps one or more keys to the specified [value].
 */
 public fun containsValue(value: @UnsafeVariance V): Boolean
 /**
 * Returns the value corresponding to the given [key], or `null` if such a key is not present in the map.
 */
 public operator fun get(key: K): V?
 /**
 * Returns the value corresponding to the given [key], or [defaultValue] if such a key is not present in the map.
 * @since JDK 1.8
 */
 @SinceKotlin("1.1")
 @PlatformDependent
 public fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): V {
 // See default implementation in JDK
 sources
 throw NotImplementedError()
 }
 // Views
 /**
 * Returns a read-only [Set] of all keys in this map.
 */
 public val keys: Set<K>
 /**
 * Returns a read-only [Collection] of all values in this map. Note that this collection may contain duplicate values.
 */
 public val values: Collection<V>
 /**
 * Returns a read-only [Set] of all key/value pairs in this map.
 */
 public val entries: Set<Map.Entry<K, V>>
}

```

Represents a key/value pair held by a [Map].

```

public interface Entry<out K, out V> {
 /**
 * Returns the key of this key/value pair.
 */
 public val key: K
 /**
 * Returns the value of this key/value pair.
 */
 public val value: V
}

```

A modifiable collection that holds pairs of objects (keys and values) and supports efficiently retrieving the value corresponding to each key. Map keys are unique; the map holds only one value for each key.

`@param K` the type of map keys. The map is invariant in its key type.

`@param V` the type of map values. The mutable map is invariant in its value type.

```

public interface MutableMap<K, V> : Map<K, V> {
 // Modification
 Operations
 /**
 * Associates the specified [value] with the specified [key] in the map.
 * @return the previous value associated with the key, or `null` if the key was not present in the map.
 */
 public fun put(key: K, value: V): V?
 /**
 * Removes the specified key and its corresponding value from this map.
 * @return the previous value associated with the key, or `null` if the key was not present in the map.
 */
 public fun remove(key: K): V?
 /**
 * Removes the entry for the specified key only if it is mapped to the specified value.
 * @return true if entry was removed
 */
 @SinceKotlin("1.1")
 @PlatformDependent
 public fun remove(key: K, value: V): Boolean {
 // See default implementation in
 JDK sources
 return true
 }
 // Bulk Modification Operations
 /**
 * Updates this map with key/value pairs from the specified map [from].
 */
 public fun putAll(from: Map<out K, V>): Unit
 /**
 * Removes all elements from this map.
 */
 public fun clear(): Unit
 // Views
 /**
 * Returns a [MutableSet] of all keys in this map.
 */
 override val keys: MutableSet<K>
 /**
 * Returns a [MutableCollection] of all values in this map. Note that this collection may contain duplicate values.
 */
 override val values: MutableCollection<V>
 /**
 * Returns a [MutableSet] of all key/value pairs in this map.
 */
 override val entries: MutableSet<MutableMap.MutableEntry<K, V>>
}

```

Represents a

```

key/value pair held by a [MutableMap].\n *\n public interface MutableEntry<K, V> : Map.Entry<K, V> {\n
/**\n * Changes the value associated with the key of this entry.\n *\n * @return the previous value
corresponding to the key.\n *\n public fun setValue(newValue: V): V\n }\n}\n",/>\n * Copyright 2010-
2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n// Auto-generated file. DO NOT
EDIT!\n\npackage kotlin.collections\n\n/** An iterator over a sequence of values of type `Byte`. */\npublic abstract
class ByteIterator : Iterator<Byte> {\n override final fun next() = nextByte()\n\n /** Returns the next value in
the sequence without boxing. */\n public abstract fun nextByte(): Byte\n}\n\n/** An iterator over a sequence of
values of type `Char`. */\npublic abstract class CharIterator : Iterator<Char> {\n override final fun next() =
nextChar()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun nextChar():
Char\n}\n\n/** An iterator over a sequence of values of type `Short`. */\npublic abstract class ShortIterator :
Iterator<Short> {\n override final fun next() = nextShort()\n\n /** Returns the next value in the sequence without
boxing. */\n public abstract fun nextShort(): Short\n}\n\n/** An iterator over a sequence of values of type `Int`.
*/\npublic abstract class IntIterator : Iterator<Int> {\n override final fun next() = nextInt()\n\n /** Returns the
next value in the sequence without boxing. */\n public abstract fun nextInt(): Int\n}\n\n/** An iterator over a
sequence of values of type `Long`. */\npublic abstract class LongIterator : Iterator<Long> {\n override final fun
next() = nextLong()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun
nextLong(): Long\n}\n\n/** An iterator over a sequence of values of type `Float`. */\npublic abstract class
FloatIterator : Iterator<Float> {\n override final fun next() = nextFloat()\n\n /** Returns the next value in the
sequence without boxing. */\n public abstract fun nextFloat(): Float\n}\n\n/** An iterator over a sequence of
values of type `Double`. */\npublic abstract class DoubleIterator : Iterator<Double> {\n override final fun next() =
nextDouble()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun
nextDouble(): Double\n}\n\n/** An iterator over a sequence of values of type `Boolean`. */\npublic abstract class
BooleanIterator : Iterator<Boolean> {\n override final fun next() = nextBoolean()\n\n /** Returns the next value
in the sequence without boxing. */\n public abstract fun nextBoolean(): Boolean\n}\n",/>\n * Copyright 2010-
2022 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n// 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: Int = last.code\n private var
hasNext: Boolean = if (step > 0) first <= last else first >= last\n private var next: Int = if (hasNext) first.code 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 *
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: Int = last\n private var hasNext: Boolean = if (step > 0) first <= last else first >=
last\n private var next: Int = 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 * 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: Long
= last\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n private var next: Long = if
(hasNext) first else finalElement\n\n override fun hasNext(): Boolean = hasNext\n\n override fun nextLong():
Long {\n val value = next\n if (value == finalElement) {\n if (!hasNext) throw
kotlin.NoSuchElementException()\n hasNext = false\n }\n else {\n next += step\n }\n
return value\n }\n}\n",/>\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language

```

```

contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n\n// 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("\nStep must be non-
zero.\n")\n if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException("\nStep must be greater than
Int.MIN_VALUE to avoid overflow on negation.\n")\n }\n\n /**\n * The first element in the progression.\n */\n public val first: Char = start\n\n /**\n * The last element in the progression.\n */\n public val last:
Char = getProgressionLastElement(start.code, endInclusive.code, step).toChar()\n\n /**\n * The step of the
progression.\n */\n public val step: Int = step\n\n override fun iterator(): CharIterator =
CharProgressionIterator(first, last, step)\n\n /**\n * Checks if the progression is empty.\n */\n * Progression
with a positive step is empty if its first element is greater than the last element.\n * Progression with a negative
step is empty if its first element is less than the last element.\n */\n public open fun isEmpty(): Boolean = if
(step > 0) first > last else first < last\n\n override fun equals(other: Any?): Boolean =\n other is
CharProgression && (isEmpty() && other.isEmpty()) ||\n first == other.first && last == other.last && step ==
other.step\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * first.code + last.code) +
step)\n\n override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-
step}\"\n\n companion object {\n /**\n * Creates CharProgression within the specified bounds of a
closed range.\n */\n * The progression starts with the [rangeStart] value and goes toward the [rangeEnd]
value not excluding it, with the specified [step].\n * In order to go backwards the [step] must be negative.\n
 */\n * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\n */\n public fun
fromClosedRange(rangeStart: Char, rangeEnd: Char, step: Int): CharProgression = CharProgression(rangeStart,
rangeEnd, step)\n }\n}\n\n/**\n * A progression of values of type `Int`.\n */\npublic open class IntProgression\n internal constructor\n (\n start: Int,\n endInclusive: Int,\n step: Int\n) : Iterable<Int> {\n init {\n if (step == 0) throw kotlin.IllegalArgumentException("\nStep must be non-zero.\n")\n if (step ==
Int.MIN_VALUE) throw kotlin.IllegalArgumentException("\nStep must be greater than Int.MIN_VALUE to avoid
overflow on negation.\n")\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, endInclusive, step)\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 /**\n *
Checks if the progression is empty.\n */\n * Progression with a positive step is empty if its first element is
greater than the last element.\n * Progression with a negative step is empty if its first element is less than the last
element.\n */\n public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n override fun
equals(other: Any?): Boolean =\n other is IntProgression && (isEmpty() && other.isEmpty()) ||\n first ==
other.first && last == other.last && step == other.step\n\n override fun hashCode(): Int =\n if (isEmpty()) -1
else (31 * (31 * first + last) + step)\n\n override fun toString(): String = if (step > 0) \"$first..$last step $step\"
else \"$first downTo $last step ${-step}\"\n\n companion object {\n /**\n * Creates IntProgression within the
specified bounds of a closed range.\n */\n * The progression starts with the [rangeStart] value and goes
toward the [rangeEnd] value not excluding it, with the specified [step].\n * In order to go backwards the [step]
must be negative.\n */\n * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\n */\n
 public fun fromClosedRange(rangeStart: Int, rangeEnd: Int, step: Int): IntProgression =
IntProgression(rangeStart, rangeEnd, step)\n }\n}\n\n/**\n * A progression of values of type `Long`.\n */\npublic
open class LongProgression\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("\nStep
must be non-zero.\n")\n if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException("\nStep 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, endInclusive, step)\n\n /**\n * The step of the

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progression.\n *\n public val step: Long = step\n\n override fun iterator(): LongIterator =
LongProgressionIterator(first, last, step)\n\n /**\n * Checks if the progression is empty.\n *\n * Progression with a positive step is empty if its first element is greater than the last element.\n * Progression with a negative step is empty if its first element is less than the last element.\n *\n *\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 *
Creates LongProgression within the specified bounds of a closed range.\n *\n * The progression starts
with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n *
In order to go backwards the [step] must be negative.\n *\n * [step] must be greater than
`Long.MIN_VALUE` and not equal to zero.\n *\n *\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\npublic
interface ClosedRange<T: Comparable<T>> {\n /**\n * The minimum value in the range.\n *\n *\n public val
start: T\n\n /**\n * The maximum value in the range (inclusive).\n *\n *\n public val endInclusive: T\n\n /**\n * Checks whether the specified [value] belongs to the range.\n *\n *\n public operator fun contains(value:
T): Boolean = value >= start && value <= endInclusive\n\n /**\n * Checks whether the range is empty.\n *\n *
The range is empty if its start value is greater than the end value.\n *\n *\n public fun isEmpty(): Boolean = start
> endInclusive\n}\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 */\n\npackage
kotlin\n\n/**\n * The type with only one value: the `Unit` object. This type corresponds to the `void` type in Java.\n
*/\n\npublic object Unit {\n override fun toString() = "kotlin.Unit{\n}\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 */\n\npackage kotlin.annotation\n\nimport
kotlin.annotation.AnnotationTarget.*\n\n/**\n * Contains the list of code elements which are the possible annotation
targets\n */\n\npublic enum class AnnotationTarget {\n /** Class, interface or object, annotation class is also
included\n * CLASS,\n * Annotation class only\n * ANNOTATION_CLASS,\n * Generic type
parameter\n * TYPE_PARAMETER,\n * Property\n * PROPERTY,\n * Field, including property's
backing field\n * FIELD,\n * Local variable\n * LOCAL_VARIABLE,\n * Value parameter of a
function or a constructor\n * VALUE_PARAMETER,\n * Constructor only (primary or secondary)\n *
CONSTRUCTOR,\n * Function (constructors are not included)\n * FUNCTION,\n * Property getter only\n *
PROPERTY_GETTER,\n * Property setter only\n * PROPERTY_SETTER,\n * Type usage\n *
TYPE,\n * Any expression\n * EXPRESSION,\n * File\n * FILE,\n * Type alias\n *
TYPEALIAS\n}\n\n/**\n * Contains the list of possible annotation's retentions.\n */\n\nDetermines how an annotation is stored in binary output.\n\npublic enum class AnnotationRetention {\n /**

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Annotation isn't stored in binary output */\n SOURCE,\n /** Annotation is stored in binary output, but invisible
for reflection */\n BINARY,\n /** Annotation is stored in binary output and visible for reflection (default
retention) */\n RUNTIME\n}\n\n/**\n * This meta-annotation indicates the kinds of code elements which are
possible targets of an annotation.\n * \n * If the target meta-annotation is not present on an annotation declaration,
the annotation is applicable to the following elements:\n * [CLASS], [PROPERTY], [FIELD],
[LOCAL_VARIABLE], [VALUE_PARAMETER], [CONSTRUCTOR], [FUNCTION], [PROPERTY_GETTER],
[PROPERTY_SETTER].\n * \n * @property allowedTargets list of allowed annotation targets\n
*/\n\n@\n\n@Target(AnnotationTarget.ANNOTATION_CLASS)\n\n@\n\nMustBeDocumented\n\npublic annotation class
Target(vararg val allowedTargets: AnnotationTarget)\n\n\n/**\n * This meta-annotation determines whether an
annotation is stored in binary output and visible for reflection. By default, both are true.\n * \n * @property value
necessary annotation retention (RUNTIME, BINARY or SOURCE)\n
*/\n\n@\n\n@Target(AnnotationTarget.ANNOTATION_CLASS)\n\npublic annotation class Retention(val value:
AnnotationRetention = AnnotationRetention.RUNTIME)\n\n\n/**\n * This meta-annotation determines that an
annotation is applicable twice or more on a single code element\n
*/\n\n@\n\n@Target(AnnotationTarget.ANNOTATION_CLASS)\n\npublic annotation class Repeatable\n\n\n/**\n * This
meta-annotation determines that an annotation is a part of public API and therefore should be included in the
generated\n * documentation for the element to which the annotation is applied.\n
/\n\n@\n\n@Target(AnnotationTarget.ANNOTATION_CLASS)\n\npublic annotation class MustBeDocumented\n\n\n"/\n *
Copyright 2010-2016 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\n\npackage kotlin.internal\n\n\n/**\n * Specifies
that the corresponding type parameter is not used for unsafe operations such as casts or 'is' checks\n * That means
it's completely safe to use generic types as argument for such parameter.\n
*/\n\n@\n\n@Target(AnnotationTarget.TYPE_PARAMETER)\n\n@\n\n@Retention(AnnotationRetention.BINARY)\n\n\ninternal
annotation class PureReifiable\n\n\n/**\n * Specifies that the corresponding built-in method exists depending on
platform.\n * Current implementation for JVM looks whether method with same JVM descriptor exists in the
module JDK.\n * For example MutableMap.remove(K, V) available only if corresponding\n * method
'java/util/Map.remove(Ljava/lang/Object;Ljava/lang/Object;)Z' is defined in JDK (i.e. for major versions >= 8)\n
*/\n\n@\n\n@Target(AnnotationTarget.FUNCTION)\n\n@\n\n@Retention(AnnotationRetention.BINARY)\n\n\ninternal annotation
class PlatformDependent\n\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n\npackage kotlin.internal\n\n\n// a mod b (in arithmetical sense)\n\nprivate fun mod(a:
Int, b: Int): Int {\n\n val mod = a % b\n\n return if (mod >= 0) mod else mod + b\n}\n\n\nprivate fun mod(a: Long, b:
Long): Long {\n\n val mod = a % b\n\n return if (mod >= 0) mod else mod + b\n}\n\n\n// (a - b) mod c\n\nprivate fun
differenceModulo(a: Int, b: Int, c: Int): Int {\n\n return mod(mod(a, c) - mod(b, c), c)\n}\n\n\nprivate fun
differenceModulo(a: Long, b: Long, c: Long): Long {\n\n return mod(mod(a, c) - mod(b, c), c)\n}\n\n\n/**\n *
Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in
the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n *
[step].\n * \n * No validation on passed parameters is performed. The given parameters should satisfy the
condition:\n * \n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n * \n * @param start
first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or
difference of successive elements in the progression\n * @return the final element of the progression\n *
*/\n\n\n@suppress\n\n@\n\n@PublishedApi\n\n\ninternal fun getProgressionLastElement(start: Int, end: Int, step: Int): Int = when
{\n\n step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\n\n step < 0 -> if (start <= end)
end else end + differenceModulo(start, end, -step)\n\n else -> throw kotlin.IllegalArgumentException("Step is

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zero.\")\n}\n\n/*\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the
progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case
of a negative\n * [step].\n *\n * No validation on passed parameters is performed. The given parameters should
satisfy the condition:\n *\n * - either `step > 0` and `start <= end`,\n *\n * - or `step < 0` and `start >= end`.\n *\n *
@param start first element of the progression\n * @param end ending bound for the progression\n * @param step
increment, or difference of successive elements in the progression\n * @return the final element of the progression\n
* @suppress\n */\n@PublishedApi\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("\u0027Step is zero.\u0027")\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@JsName("\u0027arrayIterator\u0027")\ninternal fun arrayIterator(array:
dynamic, type: String?) = when (type) {\n null -> {\n val arr: Array<dynamic> = array\n object :
Iterator<dynamic> {\n var index = 0\n override fun hasNext() = index < arr.size\n override fun
next() = if (index < arr.size) arr[index++] else throw NoSuchElementException("\u0024index\u0027")\n }\n }\n "\u0027BooleanArray\u0027" -> booleanArrayIterator(array)\n "\u0027ByteArray\u0027" -> byteArrayIterator(array)\n "\u0027ShortArray\u0027" -
-> shortArrayIterator(array)\n "\u0027CharArray\u0027" -> charArrayIterator(array)\n "\u0027IntArray\u0027" ->
intArrayIterator(array)\n "\u0027LongArray\u0027" -> longArrayIterator(array)\n "\u0027FloatArray\u0027" ->
floatArrayIterator(array)\n "\u0027DoubleArray\u0027" -> doubleArrayIterator(array)\n else -> throw
IllegalStateException("\u0027Unsupported type argument for arrayIterator:
\u0024type\u0027")\n}\n\n@JsName("\u0027booleanArrayIterator\u0027")\ninternal fun booleanArrayIterator(array: BooleanArray) =
object : BooleanIterator() {\n var index = 0\n override fun hasNext() = index < array.size\n override fun
nextBoolean() = if (index < array.size) array[index++] else throw
NoSuchElementException("\u0024index\u0027")\n}\n\n@JsName("\u0027byteArrayIterator\u0027")\ninternal fun byteArrayIterator(array:
ByteArray) = object : ByteIterator() {\n var index = 0\n override fun hasNext() = index < array.size\n override
fun nextByte() = if (index < array.size) array[index++] else throw
NoSuchElementException("\u0024index\u0027")\n}\n\n@JsName("\u0027shortArrayIterator\u0027")\ninternal fun
shortArrayIterator(array: ShortArray) = object : ShortIterator() {\n var index = 0\n override fun hasNext() =
index < array.size\n override fun nextShort() = if (index < array.size) array[index++] else throw
NoSuchElementException("\u0024index\u0027")\n}\n\n@JsName("\u0027charArrayIterator\u0027")\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("\u0024index\u0027")\n}\n\n@JsName("\u0027intArrayIterator\u0027")\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("\u0024index\u0027")\n}\n\n@JsName("\u0027floatArrayIterator\u0027")\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("\u0024index\u0027")\n}\n\n@JsName("\u0027doubleArrayIterator\u0027")\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("\u0024index\u0027")\n}\n\n@JsName("\u0027longArrayIterator\u0027")\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("\u0024index\u0027")\n}\n\n@JsName("\u0027PropertyMetadata\u0027")\ninternal class
PropertyMetadata(@JsName("\u0027callableName\u0027") val name:
String)\n\n@JsName("\u0027noWhenBranchMatched\u0027")\ninternal fun noWhenBranchMatched(): Nothing = throw
NoWhenBranchMatchedException()\n\n@JsName("\u0027subSequence\u0027")\ninternal fun subSequence(c: CharSequence,

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startIndex: Int, endIndex: Int): CharSequence {\n if (c is String) {\n return c.substring(startIndex, endIndex)\n } else {\n return c.asDynamic().`subSequence_vux9f0` (startIndex, endIndex)\n }\n}\n\n@JsName("captureStack")\ninternal fun captureStack(@Suppress("UNUSED_PARAMETER")\nbaseClass: JsClass<in Throwable>, instance: Throwable) {\n if (js("Error").captureStackTrace) {\n // Using uncropped stack traces due to KT-37563.\n // Precise stack traces are implemented in JS IR compiler and stdlib\n js("Error").captureStackTrace(instance);\n } else {\n instance.asDynamic().stack = js("new Error()").stack;\n }\n}\n\n@JsName("newThrowable")\ninternal fun newThrowable(message: String?, cause: Throwable?): Throwable {\n val throwable = js("new Error()")\n throwable.message = if (jsTypeOf(message) == "undefined") {\n if (cause != null) cause.toString() else null\n } else {\n message\n }\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 * @PublishedApi\n * @JsName("arrayConcat")\n * @Suppress("UNUSED_PARAMETER")\n * internal fun <T> arrayConcat(a: T, b: T): T {\n * return concat(js("arguments"))\n * }\n * \n * Concat primitive arrays. Main use: prepare vararg arguments.\n * For compatibility with 1.1.0 the arguments may be a mixture of Array's and TypedArray's.\n * * \n * If the first argument is TypedArray (Byte-, Short-, Char-, Int-, Float-, and DoubleArray) returns a TypedArray, otherwise an Array.\n * If the first argument has the $type$ property (Boolean-, Char-, and LongArray) copy its value to result.$type$.\n * If the first argument is a regular Array without the $type$ property default to arrayConcat.\n * \n * @PublishedApi\n * @JsName("primitiveArrayConcat")\n * @Suppress("UNUSED_PARAMETER")\n * internal fun <T> primitiveArrayConcat(a: T, b: T): T {\n * val args: Array<T> = js("arguments")\n * if (a is Array<*> && a.asDynamic().`$type$` === undefined) {\n * return concat(args)\n * } else {\n * var size = 0\n * for (i in args.indices) {\n * size += args[i].asDynamic().length as Int\n * }\n * val result = js("new a.constructor(size)")\n * kotlin.copyArrayType(a, result)\n * size = 0\n * for (i in args.indices) {\n * val arr = args[i].asDynamic()\n * for (j in 0 until arr.length) {\n * result[size++] = arr[j]\n * }\n * }\n * return result\n * }\n * }\n * \n * @JsName("booleanArrayOf")\n * internal fun booleanArrayOf() = withType("BooleanArray", js("[]").slice.call(arguments))\n * \n * @JsName("charArrayOf") // The arguments have to be slice'd here because of Rhino (see KT-16974)\n * internal fun charArrayOf() = withType("CharArray", js("new Uint16Array([]).slice.call(arguments)")\n *)\n * \n * @JsName("longArrayOf")\n * internal fun longArrayOf() = withType("LongArray", js("[]").slice.call(arguments))\n * \n * @JsName("withType")\n * @kotlin.internal.InlineOnly\n * internal inline fun withType(type: String, array: dynamic): dynamic {\n * array.`$type$` = type\n * return array\n * }\n * \n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n * \n * @package kotlin.js\n * \n * \n * Function corresponding to JavaScript's `typeof` operator\n * \n * @kotlin.internal.InlineOnly\n * @Suppress("UNUSED_PARAMETER")\n * public inline fun jsTypeOf(a: Any?): String = js("typeof a")\n * \n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n * \n * @file:Suppress("UNUSED_PARAMETER", "NOTHING_TO_INLINE")\n * @package kotlin\n * \n * \n * Returns an empty array of the specified type [T].\n * \n * @public inline fun <T> emptyArray(): Array<T> = js("[]")\n * \n * @library\n * @public fun <T> arrayOf(vararg

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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 *\npublic actual fun <T> lazy(initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n/**\n *
Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\n *\n * The [mode]
parameter is ignored. *\npublic actual fun <T> lazy(mode: LazyThreadSafetyMode, initializer: () -> T): Lazy<T> =
UnsafeLazyImpl(initializer)\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization
function [initializer].\n *\n * The [lock] parameter is ignored.\n *\npublic actual fun <T> lazy(lock: Any?,
initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n\ninternal fun fillFrom(src: dynamic, dst: dynamic):
dynamic {\n val srcLen: Int = src.length\n val dstLen: Int = dst.length\n var index: Int = 0\n while (index <
srcLen && index < dstLen) dst[index] = src[index++]\n return dst\n}\n\n\ninternal fun arrayCopyResize(source:
dynamic, newSize: Int, defaultValue: Any?): dynamic {\n val result = source.slice(0, newSize)\n}
copyArrayType(source, result)\n var index: Int = source.length\n if (newSize > index) {\n result.length =
newSize\n while (index < newSize) result[index++] = defaultValue\n }\n return result\n}\n\n\ninternal fun
<T> arrayPlusCollection(array: dynamic, collection: Collection<T>): dynamic {\n val result = array.slice()\n result.length += collection.size\n copyArrayType(array, result)\n var index: Int = array.length\n for (element in
collection) result[index++] = element\n return result\n}\n\n\ninternal fun <T> fillFromCollection(dst: dynamic,
startIndex: Int, collection: Collection<T>): dynamic {\n var index = startIndex\n for (element in collection)
dst[index++] = element\n return dst\n}\n\n\ninternal inline fun copyArrayType(from: dynamic, to: dynamic) {\n if
(from.`$type$` !== undefined) {\n to.`$type$` = from.`$type$`\n }\n}\n\n\ninternal inline fun jsIsType(obj:
dynamic, jsClass: dynamic) = js("Kotlin").isType(obj, jsClass),"/*\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n *\n\npackage kotlin\n\n/**\n * Creates a Char with the specified
[code].\n *\n * @sample samples.text.Chars.charFromCode\n
*\n\n@SinceKotlin("1.5")\n\n@WasExperimental(ExperimentalStdlibApi::class)\n\n@kotlin.internal.InlineOnly\n\npubli
c actual inline fun Char(code: UShort): Char {\n return code.toInt().toChar()\n}\n\n", "/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\npackage kotlin.coroutines\n\nimport
kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@SinceKotlin("1.3")\n\n@JsName("CoroutineImpl")\n\n\ninternal abstract class CoroutineImpl(private val resultContinuation: Continuation<Any?>) : Continuation<Any?>
{\n protected var state = 0\n protected var exceptionState = 0\n protected var result: Any? = null\n protected
var exception: Throwable? = null\n protected var finallyPath: Array<Int>? = null\n\n public override val context:
CoroutineContext = resultContinuation.context\n\n private var intercepted_: Continuation<Any?>? = null\n\n public fun intercepted(): Continuation<Any?> =\n intercepted_\n ?:\n (context[ContinuationInterceptor]?.interceptContinuation(this) ?: this)\n .also { intercepted_ = it }\n\n override fun resumeWith(result: Result<Any?>) {\n var current = this\n var currentResult: Any? =
result.getOrNull()\n var currentException: Throwable? = result.exceptionOrNull()\n // This loop unrolls
recursion in current.resumeWith(param) to make saner and shorter stack traces on resume\n while (true) {\n
 with(current) {\n val completion = resultContinuation\n // Set result and exception fields in
the current continuation\n if (currentException == null) {\n this.result = currentResult\n } else {\n state = exceptionState\n exception = currentException\n }\n }\n try {\n val outcome = doResume()\n if (outcome === COROUTINE_SUSPENDED)

```

```

return\n currentResult = outcome\n currentException = null\n } catch (exception:
dynamic) { // Catch all exceptions\n currentResult = null\n currentException =
exception.unsafeCast<Throwable>()\n }\n releaseIntercepted() // this state machine instance is
terminating\n\n if (completion is CoroutineImpl) {\n // unrolling recursion via loop\n current = completion\n } else {\n // top-level completion reached -- invoke and return\n currentException?.let {\n completion.resumeWithException(it)\n } ?:
completion.resume(currentResult)\n return\n }\n }\n }\n }\n private fun
releaseIntercepted() {\n val intercepted = intercepted_\n if (intercepted != null && intercepted !== this) {\n context[ContinuationInterceptor]!!.releaseInterceptedContinuation(intercepted)\n }\n this.intercepted_
= CompletedContinuation // just in case\n }\n protected abstract fun doResume(): Any?\n }\n internal object
CompletedContinuation : Continuation<Any?> {\n override val context: CoroutineContext\n get() =
error(\"This continuation is already complete\")\n override fun resumeWith(result: Result<Any?>) {\n error(\"This continuation is already complete\")\n }\n override fun toString(): String = \"This continuation is
already complete\"\n }\n /*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n @file:Suppress(\"UNCHECKED_CAST\",
\"RedundantVisibilityModifier\")\n package kotlin\n import kotlin.contracts.*\n import
kotlin.internal.InlineOnly\n import kotlin.jvm.JvmField\n import kotlin.jvm.JvmInline\n import
kotlin.jvm.JvmName\n /**\n * A discriminated union that encapsulates a successful outcome with a value of type
[T]\n * or a failure with an arbitrary [Throwable] exception.\n */\n @SinceKotlin(\"1.3\")\n @JvmInline\n public
value class Result<out T> @PublishedApi internal constructor(\n @PublishedApi\n internal val value: Any?\n) :
Serializable {\n // discovery\n /**\n * Returns `true` if this instance represents a successful outcome.\n *
In this case [isFailure] returns `false`.\n */\n @ public val isSuccess: Boolean get() = value !is Failure\n /**\n * Returns `true` if this instance represents a failed outcome.\n *
In this case [isSuccess] returns `false`.\n */\n @ public val isFailure: Boolean get() = value is Failure\n // value & exception retrieval\n /**\n * Returns the
encapsulated value if this instance represents [success][Result.isSuccess] or `null` if it is
[failure][Result.isFailure].\n */\n * This function is a shorthand for `getOrNull` (see [getOrNull]) or\n *
`fold(onSuccess = { it }, onFailure = { null })` (see [fold]).\n */\n @InlineOnly\n public inline fun
getOrNull(): T? =\n when {\n isFailure -> null\n else -> value as T\n }\n /**\n *
Returns the encapsulated [Throwable] exception if this instance represents [failure][isFailure] or `null` if it is
[success][isSuccess].\n */\n * This function is a shorthand for `fold(onSuccess = { null }, onFailure = { it })`
(see [fold]).\n */\n @ public fun exceptionOrNull(): Throwable? =\n when (value) {\n is Failure ->
value.exception\n else -> null\n }\n /**\n * Returns a string `Success(v)` if this instance represents
[success][Result.isSuccess]\n * where `v` is a string representation of the value or a string `Failure(x)` if\n * it
is [failure][isFailure] where `x` is a string representation of the exception.\n */\n @ public override fun toString():
String =\n when (value) {\n is Failure -> value.toString() // \"Failure($exception)\"\n else ->
\"Success($value)\"\n }\n // companion with constructors\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 @Suppress(\"INAPPLICABLE_JVM_NAME\")\n @InlineOnly\n @JvmName(\"success\")\n public
inline fun <T> success(value: T): Result<T> =\n Result(value)\n /**\n * Returns an instance that
encapsulates the given [Throwable] [exception] as failure.\n */\n @Suppress(\"INAPPLICABLE_JVM_NAME\")\n @InlineOnly\n @JvmName(\"failure\")\n public
inline fun <T> failure(exception: Throwable): Result<T> =\n Result(createFailure(exception))\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 *
Creates an instance of internal marker [Result.Failure] class to\n * make sure that this class is not exposed in ABI.\n */

```

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*^@PublishedApi^@SinceKotlin("1.3")^internal fun createFailure(exception: Throwable): Any =^
Result.Failure(exception)^@n/**^ * Throws exception if the result is failure. This internal function minimizes^
inlined bytecode for [getOrThrow] and makes sure that in the future we can^
add some exception-augmenting logic here (if needed).^
^@PublishedApi^@SinceKotlin("1.3")^internal fun Result<>.throwOnFailure() {^
if (value is Result.Failure) throw value.exception^
}^@n/**^ * Calls the specified function [block] and returns its encapsulated result if invocation was successful,^
catching any [Throwable] exception that was thrown from the [block] function execution and encapsulating it as a failure.^
*^@InlineOnly^@SinceKotlin("1.3")^public inline fun <R> runCatching(block: () -> R): Result<R> {^
return try {^
Result.success(block())^
} catch (e: Throwable) {^
Result.failure(e)^
}^
}^@n/**^ * Calls the specified function [block] with `this` value as its receiver and returns its encapsulated result if invocation was successful,^
catching any [Throwable] exception that was thrown from the [block] function execution and encapsulating it as a failure.^
*^@InlineOnly^@SinceKotlin("1.3")^public inline fun <T, R> T.runCatching(block: T.() -> R): Result<R> {^
return try {^
Result.success(block())^
} catch (e: Throwable) {^
Result.failure(e)^
}^
}^@n// -- extensions ---^
*^@n/**^ * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or throws the encapsulated [Throwable] exception^
if it is [failure][Result.isFailure].^
*^@n * This function is a shorthand for `getOrElse { throw it }` (see [getOrElse]).^
*^@InlineOnly^@SinceKotlin("1.3")^public inline fun <T> Result<T>.getOrThrow(): T {^
throwOnFailure()^
return value as T^
}^@n/**^ * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or the^
result of [onFailure] function for the encapsulated [Throwable] exception if it is [failure][Result.isFailure].^
*^@n * Note, that this function rethrows any [Throwable] exception thrown by [onFailure] function.^
*^@n * This function is a shorthand for `fold(onSuccess = { it }, onFailure = onFailure)` (see [fold]).^
*^@InlineOnly^@SinceKotlin("1.3")^public inline fun <R, T : R> Result<T>.getOrElse(onFailure: (exception: Throwable) -> R): R {^
contract {^
callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)^
}^
return when (val exception = exceptionOrNull()) {^
null -> value as T^
else -> onFailure(exception)^
}^
}^@n/**^ * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or the^
[defaultValue] if it is [failure][Result.isFailure].^
*^@n * This function is a shorthand for `getOrElse { defaultValue }` (see [getOrElse]).^
*^@InlineOnly^@SinceKotlin("1.3")^public inline fun <R, T : R> Result<T>.getOrDefault(defaultValue: R): R {^
if (isFailure) return defaultValue^
return value as T^
}^@n/**^ * Returns the result of [onSuccess] for the encapsulated value if this instance represents [success][Result.isSuccess]^
or the result of [onFailure] function for the encapsulated [Throwable] exception if it is [failure][Result.isFailure].^
*^@n * Note, that this function rethrows any [Throwable] exception thrown by [onSuccess] or by [onFailure] function.^
*^@InlineOnly^@SinceKotlin("1.3")^public inline fun <R, T> Result<T>.fold(^
onSuccess: (value: T) -> R,^
onFailure: (exception: Throwable) -> R): R {^
contract {^
callsInPlace(onSuccess, InvocationKind.AT_MOST_ONCE)^
callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)^
}^
return when (val exception = exceptionOrNull()) {^
null -> onSuccess(value as T)^
else -> onFailure(exception)^
}^
}^@n// transformation^
*^@n/**^ * Returns the encapsulated result of the given [transform] function applied to the encapsulated value^
if this instance represents [success][Result.isSuccess] or the^
original encapsulated [Throwable] exception if it is [failure][Result.isFailure].^
*^@n * Note, that this function rethrows any [Throwable] exception thrown by [transform] function.^
*^@n * See [mapCatching] for an alternative that encapsulates exceptions.^
*^@InlineOnly^@SinceKotlin("1.3")^public inline fun <R, T> Result<T>.map(transform: (value: T) -> R): Result<R> {^
contract {^
callsInPlace(transform, InvocationKind.AT_MOST_ONCE)^
}^
return when {^
isSuccess -> Result.success(transform(value as T))^
else -> Result(value)^
}^
}^@n/**^ * Returns the encapsulated result of the given [transform] function applied to the encapsulated value^
if this instance represents [success][Result.isSuccess] or the^
original encapsulated [Throwable] exception if it is [failure][Result.isFailure].^
*^@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.^
*^@InlineOnly^@SinceKotlin("1.3")^public inline fun <R, T> Result<T>.mapCatching(transform: (value: T) -> R): Result<R> {^
return when {^
isSuccess ->

```

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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\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T : R> Result<T>.recover(transform: (exception:
Throwable) -> R): Result<R> {\n contract {\n callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\n
}\n return when (val exception = exceptionOrNull()) {\n null -> this\n else ->
Result.success(transform(exception))\n }\n}\n\n/**\n * Returns the encapsulated result of the given [transform]
function applied to the encapsulated [Throwable] exception\n * if this instance represents [failure][Result.isFailure]
or the\n * original encapsulated value if it is [success][Result.isSuccess].\n *\n * This function catches any
[Throwable] exception thrown by [transform] function and encapsulates it as a failure.\n * See [recover] for an
alternative that rethrows exceptions.\n */\n\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <R, T : R>
Result<T>.recoverCatching(transform: (exception: Throwable) -> R): Result<R> {\n return when (val exception =
exceptionOrNull()) {\n null -> this\n else -> runCatching { transform(exception) }\n }\n}\n\n/**\n * Performs the given [action] on the encapsulated [Throwable] exception if
this instance represents [failure][Result.isFailure].\n * Returns the original `Result` unchanged.\n
*/\n\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <T> Result<T>.onFailure(action: (exception:
Throwable) -> Unit): Result<T> {\n contract {\n callsInPlace(action, InvocationKind.AT_MOST_ONCE)\n
}\n exceptionOrNull()?.let { action(it) }\n return this\n}\n\n/**\n * Performs the given [action] on the
encapsulated value if this instance represents [success][Result.isSuccess].\n * Returns the original `Result`
unchanged.\n */\n\n@InlineOnly\n@SinceKotlin("1.3")\npublic inline fun <T> Result<T>.onSuccess(action: (value:
T) -> Unit): Result<T> {\n contract {\n callsInPlace(action, InvocationKind.AT_MOST_ONCE)\n
}\n if (isSuccess) action(value as T)\n return this\n}\n\n// -----\n"/\n * Copyright 2010-2020 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\nimport
kotlin.contracts.*\nimport kotlin.coroutines.intrinsics.*\nimport kotlin.internal.InlineOnly\n\n/**\n * Interface
representing a continuation after a suspension point that returns a value of type `T`.\n
*/\n\n@SinceKotlin("1.3")\npublic interface Continuation<in T> {\n /**\n * The context of the coroutine that
corresponds to this continuation.\n */\n public val context: CoroutineContext\n\n /**\n * Resumes the
execution of the corresponding coroutine passing a successful or failed [result] as the\n * return value of the last
suspension point.\n */\n public fun resumeWith(result: Result<T>)\n}\n\n/**\n * Classes and interfaces marked
with this annotation are restricted when used as receivers for extension\n * `suspend` functions. These `suspend`
extensions can only invoke other member or extension `suspend` functions on this particular\n * receiver and are
restricted from calling arbitrary suspension functions.\n
*/\n\n@SinceKotlin("1.3")\n@Target(AnnotationTarget.CLASS)\n@Retention(AnnotationRetention.BINARY)\npublic
annotation class RestrictsSuspension\n\n/**\n * Resumes the execution of the corresponding coroutine passing
[value] as the return value of the last suspension point.\n */\n\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\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\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.

- \* To start executing the created coroutine, invoke `resume(Unit)` on the returned `[Continuation]` instance.
- \* The [completion] continuation is invoked when the coroutine completes with a result or an exception.
- \* Subsequent invocation of any resume function on the resulting continuation will produce an `[IllegalStateException]`.

```

*^@SinceKotlin("1.3")@Suppress("UNCHECKED_CAST")\npublic fun <T>
(suspend () -> T).createCoroutine(\n completion: Continuation<T>\n): Continuation<Unit> =\nSafeContinuation(createCoroutineUnintercepted(completion).intercepted(), COROUTINE_SUSPENDED)\n\n/**
* Creates a coroutine with receiver type [R] and result type [T].
* This function creates a new, fresh instance of
suspendable computation every time it is invoked.
* To start executing the created coroutine, invoke
`resume(Unit)` on the returned [Continuation] instance.
* The [completion] continuation is invoked when the
coroutine completes with a result or an exception.
* Subsequent invocation of any resume function on the resulting
continuation will produce an [IllegalStateException].
\n
*^@SinceKotlin("1.3")@Suppress("UNCHECKED_CAST")\npublic fun <R, T> (suspend R.() ->
T).createCoroutine(\n receiver: R,\n completion: Continuation<T>\n): Continuation<Unit> =\nSafeContinuation(createCoroutineUnintercepted(receiver, completion).intercepted(),
COROUTINE_SUSPENDED)\n\n/**
* Starts a coroutine without a receiver and with result type [T].
* This
function creates and starts a new, fresh instance of suspendable computation every time it is invoked.
* The
[completion] continuation is invoked when the coroutine completes with a result or an exception.
\n
*^@SinceKotlin("1.3")@Suppress("UNCHECKED_CAST")\npublic fun <T> (suspend () ->
T).startCoroutine(\n completion: Continuation<T>\n) {\n
createCoroutineUnintercepted(completion).intercepted().resume(Unit)\n}\n\n/**
* Starts a coroutine with receiver
type [R] and result type [T].
* This function creates and starts a new, fresh instance of suspendable computation
every time it is invoked.
* The [completion] continuation is invoked when the coroutine completes with a result or
an exception.
\n
*^@SinceKotlin("1.3")@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/**
* Obtains the current
continuation instance inside suspend functions and suspends
* the currently running coroutine.
\n
* In this
function both [Continuation.resume] and [Continuation.resumeWithException] can be used either synchronously
in
* the same stack-frame where the suspension function is run or asynchronously later in the same thread or
* from a different thread of execution. Subsequent invocation of any resume function will produce an
[IllegalStateException].
\n
*^@SinceKotlin("1.3")@InlineOnly\npublic suspend inline fun <T>
suspendCoroutine(crossinline block: (Continuation<T>) -> Unit): T {\n contract { callsInPlace(block,
InvocationKind.EXACTLY_ONCE) }\n return suspendCoroutineUninterceptedOrReturn { c: Continuation<T> -
->\n val safe = SafeContinuation(c.intercepted())\n block(safe)\n safe.getOrThrow()\n }\n}\n\n/**
* Returns the context of the current coroutine.
\n
*^@SinceKotlin("1.3")@Suppress("WRONG_MODIFIER_TARGET")@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
* Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.
\n
^@npackage kotlin.coroutines.intrinsics\n\nimport kotlin.coroutines.\nimport kotlin.internal.InlineOnly\n\n/**
* Starts an unintercepted coroutine without a receiver and with result type [T] and executes it until its first
suspension.
* Returns the result of the coroutine or throws its exception if it does not suspend or
[COROUTINE_SUSPENDED] if it suspends.
* In the latter case, the [completion] continuation is invoked when
the coroutine completes with a result or an exception.
\n
* The coroutine is started directly in the invoker's thread
without going through the [ContinuationInterceptor] that might
* be present in the completion's
[CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation
* context is established.
\n
* This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the
execution of the suspended
* coroutine using a reference to the suspending function.
\n
*^@SinceKotlin("1.3")@InlineOnly\npublic actual inline fun <T> (suspend () ->

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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\n@SinceKotlin("1.3")\n@InlineOnly\npublic 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@InlineOnly\ninternal actual inline fun <R, P, T> (suspend R.(P) -
> T).startCoroutineUninterceptedOrReturn(\n receiver: R,\n param: P,\n completion: Continuation<T>\n):
Any? = this.asDynamic()(receiver, param, completion, false)\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\n@SinceKotlin("1.3")\npublic 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
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\n@SinceKotlin("1.3")\npublic actual fun <R, T>
(suspend R.() -> T).createCoroutineUnintercepted(\n receiver: R,\n completion: Continuation<T>\n):
Continuation<Unit> =\n // Kotlin/JS suspend lambdas have an extra parameter `suspended`\n if
(this.asDynamic().length == 3) {\n // When `suspended` is true the continuation is created, but not executed\n
this.asDynamic()(receiver, completion, true)\n } else {\n createCoroutineFromSuspendFunction(completion)
{\n this.asDynamic()(receiver, completion)\n }\n }\n\n/**\n * Intercepts this continuation with
[ContinuationInterceptor].\n *\n * This function shall be used on the immediate result of

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[createCoroutineUnintercepted] or [suspendCoroutineUninterceptedOrReturn],\n * in which case it checks for
[ContinuationInterceptor] in the continuation's [context][Continuation.context],\n * invokes
[ContinuationInterceptor.interceptContinuation], caches and returns the result.\n *\n * If this function is invoked on
other [Continuation] instances it returns `this` continuation unchanged.\n *\n @SinceKotlin("1.3")\n public actual
fun <T> Continuation<T>.intercepted(): Continuation<T> =\n (this as? CoroutineImpl)?.intercepted() ?:
this\n\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\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 // Mirrors signature from JS IR
BE\n\n // Used for
js.translator/testData/box/number/mulInt32.kt\n\n @library\n\n @JsName("imulEmulated")\n\n @Suppress("UNUSED_P
ARAMETER")\n\n internal fun imul(x: Int, y: Int): Int =
definedExternally\n\n\n @Suppress("NOTHING_TO_INLINE")\n\n internal inline fun isArrayish(o: dynamic) =
js("Kotlin").isArrayish(o)\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\n\n\n // NOTE: Do not author your exceptions as they are written in
this file, instead use this template:\n\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\n\n // TODO: remove primary
constructors, make all secondary\n\n\n @Suppress("USELESS_ELVIS_RIGHT_IS_NULL")\n\n public
actual open class Error actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null)
{\n actual constructor() : this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual
constructor(cause: Throwable?) : this(undefin
ed, cause)\n }\n\n\n @Suppress("USELESS_ELVIS_RIGHT_IS_NULL")\n\n public actual open class Exception actual
constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null) {\n actual constructor() :
this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause:
Throwable?) : this(undefin
ed, cause)\n }\n\n\n public actual open class RuntimeException actual constructor(message:
String?, cause: Throwable?) : Exception(message, cause) {\n actual constructor() : this(null, null)\n actual
constructor(message: String?) : this(message, null)\n actual constructor(cause: Throwable?) : this(undefin
ed, cause)\n }\n\n\n public actual open class IllegalArgumentException actual constructor(message: String?, cause:
Throwable?) : RuntimeException(message, cause) {\n actual constructor() : this(null, null)\n actual
constructor(message: String?) : this(message, null)\n actual constructor(cause: Throwable?) : this(undefin
ed, cause)\n }\n\n\n public actual open class IllegalStateException actual constructor(message: String?, cause: Throwable?)
: RuntimeException(message, cause) {\n actual constructor() : this(null, null)\n actual constructor(message:
String?) : this(message, null)\n actual constructor(cause: Throwable?) : this(undefin
ed, cause)\n }\n\n\n public actual open class IndexOutOfBoundsException actual constructor(message: String?) : RuntimeException(message) {\n
actual constructor() : this(null)\n }\n\n\n public actual open class ConcurrentModificationException actual
constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n actual constructor() :
this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause:
Throwable?) : this(undefin
ed, cause)\n }\n\n\n public actual open class UnsupportedOperationException actual
constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n actual constructor() :
this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause:
Throwable?) : this(undefin
ed, cause)\n }\n\n\n public actual open class NumberFormatException actual
constructor(message: String?) : IllegalArgumentException(message) {\n actual constructor() :
this(null)\n }\n\n\n public actual open class NullPointerException actual constructor(message: String?) :
RuntimeException(message) {\n actual constructor() : this(null)\n }\n\n\n public actual open class

```

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ClassCastException actual constructor(message: String?) : RuntimeException(message) {\n actual constructor() :
this(null)\n}\n\npublic actual open class AssertionError\n@SinceKotlin("1.4")\nconstructor(message: String?,
cause: Throwable?) : Error(message, cause) {\n actual constructor() : this(null)\n constructor(message: String?) :
this(message, null)\n actual constructor(message: Any?) : this(message.toString(), message as?
Throwable)\n}\n\npublic actual open class NoSuchElementException actual constructor(message: String?) :
RuntimeException(message) {\n actual constructor() : this(null)\n}\n\n@SinceKotlin("1.3")\npublic actual open
class ArithmeticException actual constructor(message: String?) : RuntimeException(message) {\n actual
constructor() : this(null)\n}\n\npublic actual open class NoWhenBranchMatchedException actual
constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n actual constructor() :
this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause:
Throwable?) : this(undefiend, cause)\n}\n\npublic actual open class UninitializedPropertyAccessException actual
constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n actual constructor() :
this(null, null)\n actual constructor(message: String?) : this(message, null)\n actual constructor(cause:
Throwable?) : this(undefiend, cause)\n}\n\n"/*\n * Copyright 2010-2019 JetBrains s.r.o. Use of this source code is
governed by the Apache 2.0 license\n * that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:Suppress("UNUSED_PARAMETER")\n\npackage kotlin.js\n\n@kotlinter.internal.InlineOnly\n\ninternal
inline fun jsDeleteProperty(obj: Any, property: Any) {\n js("delete
obj[property]")\n}\n\n@kotlinter.internal.InlineOnly\n\ninternal inline fun jsBitwiseOr(lhs: Any?, rhs: Any?): Int =\n
js("lhs | rhs").unsafeCast<Int>()","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.math\n\n/**\n * Returns this value with the sign bit same as of the
[sign] value.\n * If [sign] is `NaN` the sign of the result is undefiend.\n */\n\n@SinceKotlin("1.2")\n\npublic actual
fun Double.withSign(sign: Double): Double {\n val thisSignBit =
js("Kotlin").doubleSignBit(this).unsafeCast<Int>()\n val newSignBit =
js("Kotlin").doubleSignBit(sign).unsafeCast<Int>()\n return if (thisSignBit == newSignBit) this else -
this}\n}\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin\n\n/**\n * Returns a bit representation of the specified floating-point value as [Long]\n *
according to the IEEE 754 floating-point "double format" bit layout.\n
*/\n\n@SinceKotlin("1.2")\n\n@library("doubleToBits")\n\npublic actual fun Double.toBits(): Long =
definedExternally\n\n/**\n * Returns a bit representation of the specified floating-point value as [Long]\n *
according to the IEEE 754 floating-point "double format" bit layout,\n * preserving `NaN` values exact layout.\n
*/\n\n@SinceKotlin("1.2")\n\n@library("doubleToRawBits")\n\npublic actual fun Double.toRawBits(): Long =
definedExternally\n\n/**\n * Returns the [Double] value corresponding to a given bit representation.\n
*/\n\n@SinceKotlin("1.2")\n\n@kotlinter.internal.InlineOnly\n\npublic actual inline fun Double.Companion.fromBits(bits:
Long): Double = js("Kotlin").doubleFromBits(bits).unsafeCast<Double>()\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 * 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\n@SinceKotlin("1.2")\n\n@library("floatToBits")\n\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\nNote
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\n@SinceKotlin("1.2")\n\n@library("floatToRawBits")\n\npublic actual fun Float.toRawBits(): Int =
definedExternally\n\n/**\n * Returns the [Float] value corresponding to a given bit representation.\n
*/\n\n@SinceKotlin("1.2")\n\n@kotlinter.internal.InlineOnly\n\npublic actual inline fun Float.Companion.fromBits(bits:
Int): Float =

```

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js("Kotlin").floatFromBits(bits).unsafeCast<Float>()\n\n@Suppress("NOTHING_TO_INLINE")\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", /*\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 */\nimport kotlin.reflect.KClass\n\n@PublishedApi\ninternal fun <T : Annotation> KClass<*>.findAssociatedObject(@Suppress("UNUSED_PARAMETER") annotationClass: KClass<T>): Any? {\n // This API is not supported in js-v1. Return `null` to be source-compatible with js-ir.\n return null\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 */\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")\n */\npublic actual fun Long.toString(radix: Int): String = asDynamic().toString(checkRadix(radix))\n", /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.text\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n/\n/\n// 1343 ranges totally\nprivate object Category {\n val decodedRangeStart: IntArray\n val decodedRangeCategory: IntArray\n\n init {\n val toBase64 =\n \"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/\n val fromBase64 = IntArray(128)\n for (i in toBase64.indices) {\n fromBase64[toBase64[i].code] = i\n }\n\n // rangeStartDiff.length = 1482\n val rangeStartDiff =\n \"gBCFEDCKCDCaDDaDBhBCEEDDDDDDEDXBHYBH5BRwBGDCHDCIDFHDCHFDCDEIRTEE7BGHDDJICBbSEMOFGERwDEDDDDDECEFCRBjHBFDCYFFCCzBvBjBBFC3B0hDBmBDGpBDDCtBBJlBEECLGDFCLDCgBBKVKEDiDDHCFECECKCEODBebC5CLBOKhBJDDDDWEBHFCFCPBZDEL1BVBSLPBgBB2BDBDICFBHKCKCPDBHEDWBHEDDDDEDEDIBDGDCCKCGDDDDCGECCWBFMDDCDEDDCHDDHKDDDBKDBHFCWBFGBDDDFEDBPDDKCHBGDCHEDWBFGBDCEDEDBHDDGDCKCGJEGDBFDDFDDEDDMEFDBFDCGBOKDFDFDCGFCXBQDDDDDBEGEDFDDKHBHDDGFCXBKBFCEFCFCHCHECKDNCCHFCoBEDECFDDDDHDCKJBGDCSDYBJEHBFDDEBIGKDCMuBFHEBGBIBKcKBFBFBXEIFJDFDGCKCEgBBDPEDGKKGECIBkBEODFFLkBBIBEFFECIBrBCEBEGDBKGGDDDDDDCHDENDCFEKDDIBDDFrBCDpKBECGEECPBBEChBBECGEECPB5BBECjCCDJUDQKG2CCGDsTCRBaCDrCDDIHNBEDLSDCJSCMLFCM0BDHGFBLBFDDKKGKGEFDDDBKjBB1BHfChBDFmCKfDDDDDDCGDCFDKeCFLsBEaGKBDiBXDDD1BDGDEIGJEKGGHGBGCMF/BEBvBCEDDFHEKHKJDDDeDDGDkSBFEDCIEkBIICCFKDDKeGCJHrBCDIIDBNBHEBEFDBFsB/BNBiBIB6BBF1EiIiJIGCGCIIIIIGCGCIIIIOCIIIIIIDFEDDBFEDDDDEBDIFDDFEDBLFGCEEICFBjCDEDCLDKBFBKCCGDDKDDNDgBQNEBDMPPFFDEDEBFFHECEBEEDFBEDDQjBCEDEFFCCJHBeEEfsIIEUCHCxCBeZoBGICZLV8BuCW3FBJ2BIvDB4HOesBFCfKQgJjEW/BEgBCiWVCGnBCgBBpDvBBuBEDBHEFGCCjDCGEDCFfIBDDF4BHCObXJHBHBHBHBHBHBHBgBCECGHGEDI FBKCEDMEtBaB5CM2GaMEDDCKCGFCJEDFDDDC2CDDDB6CDCFrBB+CDEKgBkBMQfBKeIBPgBKnbPgKguGgC9vUDVB3jBD3BJoBGCsIBDQKCUuBDDKcCCmCKCGIXJCNC/BBHGKDECEVFBEMCEEbqBDDGDFDXDCEBDGEG0BEICyBQCICKGSGDEBKcICXLCLbDDBvBDECCDNCKEFCfJKFBpBFEDCJDBICCKCEQBGDDByBEDCEFBYDCELEDDCKGCGGJHBHBrBBEJDEwCjBIDCKGk9KMxExBEggCgoGuLCqDmBHMFFCKBNBFBIIsDQRfLCQgCC2BoBMCCQGEGQDCQDDDDDFDGDECEEFBnEEBFEDCKCDCaDDaDBFCKBtBCfDGCGCFEDDDDDCECKDC\n val diff = decodeVarLenBase64(rangeStartDiff, fromBase64, 1342)\n val start = IntArray(diff.size + 1)\n for (i in diff.indices) {\n start[i + 1] = start[i] + diff[i]\n }\n decodedRangeStart = start\n\n // rangeCategory.length = 2033\n val rangeCategory =\n \"PsY44a41W54UYJZYB14W7XC15WZPsYa84b19Zw8b85Lr7C44brlerrYBZBCZCiBiBiBhCiiBhChiBhiCBhhChiCihBhChCChiBhChiCIBCFhjCiBiBihDhiBhCCihBiBhCCFCEbEbEb7EbGhCk7BixRkiCi4BRbh4BhRhCBRCBciiBBCiBChiZBCBCiBcGHhChCiBRBxxEYC40Rx8c6RGUm4GRFRFYRQZ44acG4wRYFEFGJYIIGFIYGwc
```





```

`Other_Lowercase`.n */ninternal fun Char.isLowerCaseImpl(): Boolean {n return getLetterType() == 1 ||
code.isOtherLowercase()\n}\n/n/**\n * Returns `true` if this character is an upper case letter, or it has contributory
property `Other_Uppercase`.n */ninternal fun Char.isUpperCaseImpl(): Boolean {n return getLetterType() == 2
|| code.isOtherUppercase()\n}\n/n/**\n * Returns\n * - `1` if the character is a lower case letter,\n * - `2` if the
character is an upper case letter,\n * - `3` if the character is a letter but not a lower or upper case letter,\n * - `0`
otherwise.\n */nprivate fun Char.getLetterType(): Int {n val ch = this.code\n val index =
binarySearchRange(Letter.decodedRangeStart, ch)\n val rangeStart = Letter.decodedRangeStart[index]\n val
rangeEnd = rangeStart + Letter.decodedRangeLength[index] - 1\n val code =
Letter.decodedRangeCategory[index]\n\n if (ch > rangeEnd) {n return 0\n }\n\n val lastTwoBits = code
and 0x3\n\n if (lastTwoBits == 0) { // gap pattern\n val shift = 2\n val threshold = rangeStart\n for (i
in 0..1) {\n threshold += (code shr shift) and 0x7f\n if (threshold > ch) {\n return 3\n
}\n shift += 7\n threshold += (code shr shift) and 0x7f\n if (threshold > ch) {\n return
0\n }\n shift += 7\n }\n return 3\n }\n\n if (code <= 0x7) {\n return lastTwoBits\n
}\n\n val distance = (ch - rangeStart)\n val shift = if (code <= 0x1F) distance % 2 else distance\n return (code
shr (2 * shift)) and 0x3\n}\n\n",/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */n\npackage kotlin.text\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED by the
GenerateUnicodeData.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\nprivate object
OtherLowercase {n internal val otherLowerStart = intArrayOf(\n 0x00aa, 0x00ba, 0x02b0, 0x02c0, 0x02e0,
0x0345, 0x037a, 0x1d2c, 0x1d78, 0x1d9b, 0x2071, 0x207f, 0x2090, 0x2170, 0x24d0, 0x2c7c, 0xa69c, 0xa770,
0xa7f8, 0xab5c, \n)\n internal val otherLowerLength = intArrayOf(\n 1, 1, 9, 2, 5, 1, 1, 63, 1, 37, 1, 1, 13,
16, 26, 2, 2, 1, 2, 4, \n)\n}\n\ninternal fun Int.isOtherLowercase(): Boolean {n val index =
binarySearchRange(OtherLowercase.otherLowerStart, this)\n return index >= 0 && this <
OtherLowercase.otherLowerStart[index] + OtherLowercase.otherLowerLength[index]\n}\n\n",/*\n * Copyright
2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */n\npackage kotlin.text\n\n/\n//
NOTE: THIS FILE IS AUTO-GENERATED by the GenerateUnicodeData.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\ninternal fun Int.isOtherUppercase(): Boolean
{\n return this in 0x2160..0x216f\n || this in 0x24b6..0x24cf\n}\n\n",/*\n * Copyright 2010-2021 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */n\npackage kotlin.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\n/\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 */n\npublic actual fun
CharSequence.elementAt(index: Int): Char {\n return elementAtOrElse(index) { throw
IndexOutOfBoundsException("index: $index, length: $length") }\n}\n\n",/*\n * Copyright 2010-2021 JetBrains
s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.\n */n\npackage kotlin.text\n\n/\n// NOTE: THIS FILE IS
AUTO-GENERATED by the GenerateUnicodeData.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n\n/\n\n// 4 ranges totally\ninternal fun
Char.titlecaseCharImpl(): Char {\n val code = this.code\n // Letters repeating <Lu, Lt, Ll> sequence and code of
the Lt is a multiple of 3, e.g. <\u01c4, \u01c5, \u01c6>\n if (code in 0x01c4..0x01cc || code in 0x01f1..0x01f3) {\n
return (3 * ((code + 1) / 3)).toChar()\n }\n // Lower case letters whose title case mapping equivalent is equal
to the original letter\n if (code in 0x10d0..0x10fa || code in 0x10fd..0x10ff) {\n return this\n }\n return
uppercaseChar()\n}\n\n",/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */n\npackage kotlin.collections\n\n/\n// NOTE: THIS FILE IS AUTO-GENERATED

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by the GenerateStandardLib.kt\n// See: <https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib>\n/\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): UByte {\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 UShortArray.elementAt(index: Int): UShort {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException("index: \$index, size: \$size") }\n}\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.asList(): List<UInt> {\n return object : AbstractList<UInt>(), RandomAccess {\n override val size: Int get() = this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: UInt): Boolean = this@asList.contains(element)\n override fun get(index: Int): UInt {\n AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun indexOf(element: UInt): Int {\n @Suppress("USELESS\_CAST")\n if ((element as Any?) !is UInt) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element: UInt): Int {\n @Suppress("USELESS\_CAST")\n if ((element as Any?) !is UInt) return -1\n return this@asList.lastIndexOf(element)\n }\n }\n}\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.asList(): List<ULong> {\n return object : AbstractList<ULong>(), RandomAccess {\n override val size: Int get() = this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: ULong): Boolean = this@asList.contains(element)\n override fun get(index: Int): ULong {\n AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun indexOf(element: ULong): Int {\n @Suppress("USELESS\_CAST")\n if ((element as Any?) !is ULong) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element: ULong): Int {\n @Suppress("USELESS\_CAST")\n if ((element as Any?) !is ULong) return -1\n return this@asList.lastIndexOf(element)\n }\n }\n}\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.asList(): List<UByte> {\n return object : AbstractList<UByte>(), RandomAccess {\n override val size: Int get() = this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: UByte): Boolean = this@asList.contains(element)\n override fun get(index: Int): UByte {\n AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun indexOf(element: UByte): Int {\n @Suppress("USELESS\_CAST")\n if ((element as Any?) !is UByte) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element: UByte): Int {\n @Suppress("USELESS\_CAST")\n if ((element as Any?) !is UByte) return -1\n return this@asList.lastIndexOf(element)\n }\n }\n}\n\n/\*\*\n \* Returns a [List] that wraps the original array.\n \*/\n@SinceKotlin("1.3")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.asList(): List<UShort> {\n return object : AbstractList<UShort>(), RandomAccess {\n override val size: Int get() = this@asList.size\n }\n}\n

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 override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: UShort):
Boolean = this@asList.contains(element)\n override fun get(index: Int): UShort {\n
AbstractList.checkElementIndex(index, size)\n return this@asList[index]\n }\n override fun
indexOf(element: UShort): Int {\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is
UShort) return -1\n return this@asList.indexOf(element)\n }\n override fun lastIndexOf(element:
UShort): Int {\n @Suppress("USELESS_CAST")\n if ((element as Any?) !is UShort) return -1\n
return this@asList.lastIndexOf(element)\n }\n}\n}\n}\n"/*\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n/\n// NOTE: THIS FILE IS AUTO-
GENERATED by the GenerateUnicodeData.kt\n// See:
https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n/\n\n// 9 ranges totally\n/**\n * Returns `true` if this
character is a whitespace.\n */\ninternal fun Char.isWhitespaceImpl(): Boolean {\n val ch = this.code\n return ch
in 0x0009..0x000d\n || ch in 0x001c..0x0020\n || ch == 0x00a0\n || ch > 0x1000 && (\n
ch == 0x1680\n || ch in 0x2000..0x200a\n || ch == 0x2028\n || ch == 0x2029\n
|| ch == 0x202f\n || ch == 0x205f\n || ch == 0x3000\n)\n}\n"/*\n * Copyright 2010-2020
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\npublic actual fun
interface Comparator<T> {\n @JsName("compare")\n public actual fun compare(a: T, b: T): Int\n}\n"/*\n *
Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.js\n\nimport kotlin.annotation.AnnotationTarget.*\n\n@Target(FUNCTION)\n@Deprecated("Use inline
extension function with body using dynamic")\npublic annotation class
nativeGetter\n\n@Target(FUNCTION)\n@Deprecated("Use inline extension function with body using
dynamic")\npublic annotation class nativeSetter\n\n@Target(FUNCTION)\n@Deprecated("Use inline extension
function with body using dynamic")\npublic annotation class nativeInvoke\n\n@Target(CLASS, FUNCTION,
PROPERTY)\ninternal annotation class library(public val name: String = "")\n\n@Target(CLASS)\ninternal
annotation class marker\n\n/**\n * Gives a declaration (a function, a property or a class) specific name in
JavaScript.\n */\n * This may be useful in the following cases:\n */\n * * There are two functions for which the
compiler gives same name in JavaScript, you can\n * 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
*/\n * Example:\n */\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 */\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 * @Retention(AnnotationRetention.BINARY)\n * @Target(CLASS, FUNCTION, PROPERTY,
CONSTRUCTOR, PROPERTY_GETTER, PROPERTY_SETTER)\n * public actual annotation class JsName(actual
val name: String)\n\n/**\n * Denotes an `external` declaration that must be imported from native JavaScript
library.\n */\n * The compiler produces the code relevant for the target module system, for example, in case of
CommonJS,\n * it will import the declaration via the `require(...)` function.\n */\n * The annotation can be used on
top-level external declarations (classes, properties, functions) and files.\n * 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 */\n *
Example:\n */\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
*/\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.

```

@see JsNonModule
@Retention(AnnotationRetention.BINARY)
@Target(CLASS, PROPERTY, FUNCTION, FILE)
public annotation class JsModule(val import: String)
/* Denotes an `external` declaration that can be used without
module system.
By default, an `external` declaration is available regardless your target module system.
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 unprefixes
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`, `_.$.f`
@see JsModule
@Retention(AnnotationRetention.BINARY)
@Target(AnnotationTarget.FILE)
public annotation class
JsQualifier(val value: String)
/* Exports top-level declaration on JS platform.
Compiled module
exposes declarations that are marked with this annotation without name mangling.
This annotation can be
applied to either files or top-level declarations.
It is currently prohibited to export the following kinds of
declarations:
`expect` declarations
inline functions with reified type parameters
suspend
functions
secondary constructors without `@JsName`
extension properties
enum classes
annotation classes
Signatures of exported declarations must only contain `exportable` types:
`dynamic`, `Any`, `String`, `Boolean`, `Byte`, `Short`, `Int`, `Float`, `Double`
`BooleanArray`, `ByteArray`,
`ShortArray`, `IntArray`, `FloatArray`, `DoubleArray`
`Array<exportable-type>`
Function types with
exportable parameters and return types
`external` or `@JsExport` classes and interfaces
Nullable
counterparts of types above
Unit return type. Must not be nullable
This annotation is experimental,
meaning that restrictions mentioned above are subject to change.
@ExperimentalJsExport
@Retention(AnnotationRetention.BINARY)
@Target(CLASS, PROPERTY,
FUNCTION, FILE)
@SinceKotlin("1.3")
public actual annotation class JsExport
/* Forces a top-level
property to be initialized eagerly, opposed to lazily on the first access to file and/or property.
@ExperimentalStdlibApi
@Retention(AnnotationRetention.BINARY)
@Target(AnnotationTarget.PROPER
TY)
@SinceKotlin("1.6")
@Deprecated("This annotation is a temporal migration assistance and may be
removed in the future releases, please consider filing an issue about the case where it is needed")
public annotation
class EagerInitialization
/* 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
ones
@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
/* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language

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contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the
[MutableCollection] interface.\n *\n * @param E the type of elements contained in the collection. The collection is
invariant in its element type.\n */\n\npublic actual abstract class AbstractMutableCollection<E> protected actual
constructor() : AbstractCollection<E>(), MutableCollection<E> {\n\n actual abstract override fun add(element: E):
Boolean\n\n actual override fun remove(element: E): Boolean {\n checkIsMutable()\n val iterator =
iterator()\n while (iterator.hasNext()) {\n if (iterator.next() == element) {\n iterator.remove()\n return true\n }\n }\n return false\n }\n\n actual override fun addAll(elements:
Collection<E>): Boolean {\n checkIsMutable()\n var modified = false\n for (element in elements) {\n if (add(element)) modified = true\n }\n return modified\n }\n\n actual override fun
removeAll(elements: Collection<E>): Boolean {\n checkIsMutable()\n return (this as
MutableIterable<E>).removeAll { it in elements }\n }\n\n actual override fun retainAll(elements:
Collection<E>): Boolean {\n checkIsMutable()\n return (this as MutableIterable<E>).removeAll { it !in
elements }\n }\n\n actual override fun clear(): Unit {\n checkIsMutable()\n val iterator = this.iterator()\n while (iterator.hasNext()) {\n iterator.next()\n iterator.remove()\n }\n }\n\n @Deprecated("Provided so that subclasses inherit this function", level = DeprecationLevel.HIDDEN)\n @JsName("toJSON")\n protected fun toJSON(): Any = this.toArray()\n\n /**\n * This method is called
every time when a mutating method is called on this mutable collection.\n * Mutable collections that are built
(frozen) must throw `UnsupportedOperationException`.\n */\n\n internal open fun checkIsMutable(): Unit {\n }\n\n /**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n /**\n * Based on GWT AbstractList\n * Copyright 2007 Google Inc.\n */\n\n package
kotlin.collections\n\n /**\n * Provides a skeletal implementation of the [MutableList] interface.\n */\n\n @param E
the type of elements contained in the list. The list is invariant in its element type.\n\n /**\n * public actual abstract class
AbstractMutableList<E> protected actual constructor() : AbstractMutableCollection<E>(), MutableList<E> {\n\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\n actual override fun add(element: E): Boolean {\n checkIsMutable()\n add(size,
element)\n return true\n }\n\n actual override fun addAll(index: Int, elements: Collection<E>): Boolean {\n AbstractList.checkPositionIndex(index, size)\n checkIsMutable()\n var _index = index\n var
changed = false\n for (e in elements) {\n add(_index++, e)\n changed = true\n }\n return
changed\n }\n\n actual override fun clear() {\n checkIsMutable()\n removeRange(0, size)\n }\n\n actual override fun removeAll(elements: Collection<E>): Boolean {\n checkIsMutable()\n return
removeAll { it in elements }\n }\n\n actual override fun retainAll(elements: Collection<E>): Boolean {\n checkIsMutable()\n return removeAll { it !in elements }\n }\n\n 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 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\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

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contains the same elements in the same order.\n */\n override fun equals(other: Any?): Boolean {\n if (other\n === this) return true\n if (other !is List<*>) return false\n return AbstractList.orderedEquals(this, other)\n }\n /**\n * Returns the hash code value for this list.\n */\n override fun hashCode(): Int =\n AbstractList.orderedHashCode(this)\n\n private open inner class IteratorImpl : MutableIterator<E> {\n /**\n * the index of the item that will be returned on the next call to [next]`()`\n */\n protected var index = 0\n /**\n * the index of the item that was returned on the previous call to [next]`()`\n * or [ListIterator.previous]`()`\n * (for\n * `ListIterator`),\n * -1 if no such item exists\n */\n protected var last = -1\n override fun\n hasNext(): Boolean = index < size\n override fun next(): E {\n if (!hasNext()) throw\n NoSuchElementException()\n last = index++\n return get(last)\n }\n override fun remove()\n {\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\n * `MutableListIterator` for abstract lists.\n */\n private inner class ListIteratorImpl(index: Int) : IteratorImpl(),\n MutableListIterator<E> {\n init {\n AbstractList.checkPositionIndex(index,\n this@AbstractMutableList.size)\n this.index = index\n }\n override fun hasPrevious(): Boolean =\n index > 0\n override fun nextIndex(): Int = index\n override fun previous(): E {\n if\n (!hasPrevious()) throw NoSuchElementException()\n last = --index\n return get(last)\n }\n override fun previousIndex(): Int = index - 1\n override fun add(element: E) {\n add(index, element)\n index++\n last = -1\n }\n override fun set(element: E) {\n check(last != -1) { \"Call\n next() or previous() before updating element value with the iterator.\" }\n set(last, element)\n }\n }\n\n private class SubList<E>(private val list: AbstractMutableList<E>, private val fromIndex: Int, toIndex: Int) :\n AbstractMutableList<E>(), RandomAccess {\n private var _size: Int = 0\n init {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, list.size)\n this._size = toIndex - fromIndex\n }\n override fun add(index: Int, element: E) {\n AbstractList.checkPositionIndex(index, _size)\n list.add(fromIndex + index, element)\n _size++\n }\n override fun get(index: Int): E {\n AbstractList.checkElementIndex(index, _size)\n return list[fromIndex + index]\n }\n override\n fun removeAt(index: Int): E {\n AbstractList.checkElementIndex(index, _size)\n val result =\n list.removeAt(fromIndex + index)\n _size--\n return result\n }\n override fun set(index: Int,\n element: E): E {\n AbstractList.checkElementIndex(index, _size)\n return list.set(fromIndex + index,\n element)\n }\n override val size: Int get() = _size\n internal override fun checkIsMutable(): Unit =\n list.checkIsMutable()\n }\n\n \"\"/>\n /**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language\n contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the\n license/LICENSE.txt file.\n */\n\n /**\n * Based on GWT AbstractMap\n */\n /**\n * Copyright 2007 Google Inc.\n */\n\n /**\n * Provides a skeletal implementation of the [MutableMap] interface.\n */\n /**\n * The implementor is required to implement [entries] property, which should return mutable set of map entries, and\n [put] function.\n */\n /**\n * @param K the type of map keys. The map is invariant in its key type.\n */\n /**\n * @param V the type\n of map values. The map is invariant in its value type.\n */\n\n public actual abstract class AbstractMutableMap<K, V>\n protected actual constructor() : AbstractMap<K, V>(), MutableMap<K, V> {\n /**\n * A mutable\n * [Map.Entry] shared by several [Map] implementations.\n */\n internal open class SimpleEntry<K, V>(override\n val key: K, value: V) : MutableMap.MutableEntry<K, V> {\n constructor(entry: Map.Entry<K, V>) :\n this(entry.key, entry.value)\n private var _value = value\n override val value: V get() = _value\n override fun setValue(newValue: V): V {\n // Should check if the map containing this entry is mutable.\n // However, to not increase entry memory footprint it might be worthwhile not to check it here and\n // force subclasses that implement `build`() (freezing) operation to implement their own `MutableEntry`.\n this@AbstractMutableMap.checkIsMutable()\n val oldValue = this._value\n this._value = newValue\n return oldValue\n }\n }\n override fun hashCode(): Int = entryHashCode(this)\n override fun\n toString(): String = entryToString(this)\n override fun equals(other: Any?): Boolean = entryEquals(this,\n other)\n }\n\n // intermediate abstract class to workaround KT-43321\n internal abstract class\n AbstractEntrySet<E : Map.Entry<K, V>, K, V> : AbstractMutableSet<E>() {\n final override fun

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contains(element: E): Boolean = containsEntry(element)\n abstract fun containsEntry(element: Map.Entry<K,
V>): Boolean\n final override fun remove(element: E): Boolean = removeEntry(element)\n abstract fun
removeEntry(element: Map.Entry<K, V>): Boolean\n }\n\n actual override fun clear() {\n entries.clear()\n
}\n\n private var _keys: MutableSet<K>? = null\n actual override val keys: MutableSet<K>\n get() {\n
if (_keys == null) {\n _keys = object : AbstractMutableSet<K>() {\n override fun
add(element: K): Boolean = throw UnsupportedOperationException("Add is not supported on keys")\n
override fun clear() {\n this@AbstractMutableMap.clear()\n }\n\n override
operator fun contains(element: K): Boolean = containsKey(element)\n\n override operator fun iterator():
MutableIterator<K> {\n val entryIterator = entries.iterator()\n return object :
MutableIterator<K> {\n override fun hasNext(): Boolean = entryIterator.hasNext()\n
 override fun next(): K = entryIterator.next().key\n override fun remove() =
entryIterator.remove()\n }\n }\n\n override fun remove(element: K): Boolean
{\n checkIsMutable()\n if (containsKey(element)) {\n
this@AbstractMutableMap.remove(element)\n return true\n }\n return
false\n }\n\n override val size: Int get() = this@AbstractMutableMap.size\n
override fun checkIsMutable(): Unit = this@AbstractMutableMap.checkIsMutable()\n }\n }\n
return _keys!!\n }\n\n actual abstract override fun put(key: K, value: V): V?\n\n actual override fun
putAll(from: Map<out K, V>) {\n checkIsMutable()\n for ((key, value) in from) {\n put(key,
value)\n }\n }\n\n private var _values: MutableCollection<V>? = null\n actual override val values:
MutableCollection<V>\n get() {\n if (_values == null) {\n _values = object :
AbstractMutableCollection<V>() {\n override fun add(element: V): Boolean = throw
UnsupportedOperationException("Add is not supported on values")\n override fun clear() =
this@AbstractMutableMap.clear()\n override operator fun contains(element: V): Boolean =
containsValue(element)\n override operator fun iterator(): MutableIterator<V> {\n val
entryIterator = entries.iterator()\n return object : MutableIterator<V> {\n override fun
hasNext(): Boolean = entryIterator.hasNext()\n override fun next(): V = entryIterator.next().value\n
 override fun remove() = entryIterator.remove()\n }\n }\n\n
override val size: Int get() = this@AbstractMutableMap.size\n\n override fun checkIsMutable(): Unit =
this@AbstractMutableMap.checkIsMutable()\n }\n }\n return _values!!\n }\n\n actual
override fun remove(key: K): V? {\n checkIsMutable()\n val iter = entries.iterator()\n while
(iter.hasNext()) {\n val entry = iter.next()\n val k = entry.key\n if (key == k) {\n val
value = entry.value\n iter.remove()\n return value\n }\n }\n return null\n }\n\n
}\n\n /**\n * This method is called every time when a mutating method is called on this mutable map.\n * Mutable
maps that are built (frozen) must throw `UnsupportedOperationException`.\n */\n internal open fun
checkIsMutable(): Unit { }\n}\n", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\npackage kotlin.collections\n\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 in 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 resizable 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 private var isReadOnly: Boolean = false\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 public actual
constructor(initialCapacity: Int) : this(emptyArray()) {}\n\n /**\n * Creates an [ArrayList] filled from the
[elements] collection.\n */\n public actual constructor(elements: Collection<E>) :
this(elements.toArray<Any?>()) {}\n\n @PublishedApi\n internal fun build(): List<E> {\n
checkIsMutable()\n isReadOnly = true\n return this\n }\n\n /** Does nothing in this ArrayList
implementation. *\n public actual fun trimToSize() {}\n\n /** Does nothing in this ArrayList implementation.
*\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 checkIsMutable()\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 checkIsMutable()\n array.asDynamic().push(element)\n
modCount++\n return true\n }\n\n actual override fun add(index: Int, element: E): Unit {\n
checkIsMutable()\n array.asDynamic().splice(insertionRangeCheck(index), 0, element)\n modCount++\n
}\n\n actual override fun addAll(elements: Collection<E>): Boolean {\n checkIsMutable()\n if
(elements.isEmpty()) return false\n array += elements.toArray<Any?>()\n modCount++\n
return true\n }\n\n actual override fun addAll(index: Int, elements: Collection<E>): Boolean {\n
checkIsMutable()\n insertionRangeCheck(index)\n\n if (index == size) return addAll(elements)\n if
(elements.isEmpty()) return false\n when (index) {\n size -> return addAll(elements)\n 0 -> array
= elements.toArray<Any?>() + array\n else -> array = array.copyOfRange(0,
index).asDynamic().concat(elements.toArray<Any?>(), array.copyOfRange(index, size))\n }\n\n
modCount++\n return true\n }\n\n actual override fun removeAt(index: Int): E {\n checkIsMutable()\n
rangeCheck(index)\n modCount++\n return if (index == lastIndex)\n array.asDynamic().pop()\n
else\n array.asDynamic().splice(index, 1)[0]\n }\n\n actual override fun remove(element: E): Boolean {\n
checkIsMutable()\n for (index in array.indices) {\n if (array[index] == element) {\n
array.asDynamic().splice(index, 1)\n modCount++\n return true\n }\n }\n return
false\n }\n\n override fun removeRange(fromIndex: Int, toIndex: Int) {\n checkIsMutable()\n
modCount++\n array.asDynamic().splice(fromIndex, toIndex - fromIndex)\n }\n\n actual override fun
clear() {\n checkIsMutable()\n array = emptyArray()\n modCount++\n }\n\n\n actual override fun
indexOf(element: E): Int = array.indexOf(element)\n\n actual override fun lastIndexOf(element: E): Int =
array.lastIndexOf(element)\n\n override fun toString() = arrayToString(array)\n\n
@Suppress("UNCHECKED_CAST")\n override fun <T> toArray(array: Array<T>): Array<T> {\n if
(array.size < size) {\n return toArray() as Array<T>\n }\n\n (this.array as
Array<T>).copyInto(array)\n if (array.size > size) {\n array[size] = null as T // null-terminate\n
}\n\n return array\n }\n\n override fun toArray(): Array<Any?> {\n return js("[]").slice.call(array)\n
}\n\n\n internal override fun checkIsMutable() {\n if (isReadOnly) throw UnsupportedOperationException()\n
}\n\n private fun rangeCheck(index: Int) = index.apply {\n AbstractList.checkElementIndex(index, size)\n
}\n\n private fun insertionRangeCheck(index: Int) = index.apply {\n AbstractList.checkPositionIndex(index,
size)\n }\n\n", "*/\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\npackage kotlin.collections\n\ninternal fun <T> sortArrayWith(array: Array<out T>, comparison: (T, T) -> Int)
{\n if (getStableSortingIsSupported()) {\n array.asDynamic().sort(comparison)\n } else {\n
mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, Comparator(comparison))\n }\n}\n\ninternal fun
<T> sortArrayWith(array: Array<out T>, comparator: Comparator<in T>) {\n if (getStableSortingIsSupported())

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{\n val comparison = { a: T, b: T -> comparator.compare(a, b) }\n array.asDynamic().sort(comparison)\n
} else {\n mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, comparator)\n } }\n\ninternal fun
<T> sortArrayWith(array: Array<out T>, fromIndex: Int, toIndex: Int, comparator: Comparator<in T>) {\n if
(fromIndex < toIndex - 1) {\n mergeSort(array.unsafeCast<Array<T>>(), fromIndex, toIndex - 1, comparator)\n
 }\n}\n\ninternal fun <T : Comparable<T>> sortArray(array: Array<out T>) {\n if
(getStableSortingIsSupported()) {\n val comparison = { a: T, b: T -> a.compareTo(b) }\n
array.asDynamic().sort(comparison)\n } else {\n mergeSort(array.unsafeCast<Array<T>>(), 0,
array.lastIndex, naturalOrder())\n }\n}\n\nprivate var _stableSortingIsSupported: Boolean? = null\nprivate fun
getStableSortingIsSupported(): Boolean {\n _stableSortingIsSupported?.let { return it }\n
_stableSortingIsSupported = false\n val array = js("[]").unsafeCast<Array<Int>>()\n // known
implementations may use stable sort for arrays of up to 512 elements\n // so we create slightly more elements to
test stability\n for (index in 0 until 600) array.asDynamic().push(index)\n val comparison = { a: Int, b: Int -> (a
and 3) - (b and 3) }\n array.asDynamic().sort(comparison)\n for (index in 1 until array.size) {\n val a =
array[index - 1]\n val b = array[index]\n if ((a and 3) == (b and 3) && a >= b) return false\n }\n
_stableSortingIsSupported = true\n return true\n}\n\nprivate fun <T> mergeSort(array: Array<T>, start: Int,
endInclusive: Int, comparator: Comparator<in T>) {\n val buffer =
arrayOfNulls<Any?>(array.size).unsafeCast<Array<T>>()\n val result = mergeSort(array, buffer, start,
endInclusive, comparator)\n if (result !== array) {\n for (i in start..endInclusive) array[i] = result[i]\n
 }\n}\n\n// Both start and end are inclusive indices.\nprivate fun <T> mergeSort(array: Array<T>, buffer: Array<T>,
start: Int, end: Int, comparator: Comparator<in T>): Array<T> {\n if (start == end) {\n return array\n }\n
val median = (start + end) / 2\n val left = mergeSort(array, buffer, start, median, comparator)\n val right =
mergeSort(array, buffer, median + 1, end, comparator)\n val target = if (left === buffer) array else buffer\n //
Merge.\n var leftIndex = start\n var rightIndex = median + 1\n for (i in start..end) {\n when {\n
leftIndex <= median && rightIndex <= end -> {\n val leftValue = left[leftIndex]\n val rightValue
= right[rightIndex]\n if (comparator.compare(leftValue, rightValue) <= 0) {\n target[i] =
leftValue\n leftIndex++\n } else {\n target[i] = rightValue\n
rightIndex++\n }\n }\n leftIndex <= median -> {\n target[i] = left[leftIndex]\n
leftIndex++\n }\n else /* rightIndex <= end */ -> {\n target[i] = right[rightIndex]\n
rightIndex++\n }\n Unit // TODO: Fix KT-31506\n }\n }\n return target\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@OptIn(ExperimentalUnsignedTypes::class)\n@SinceKotlin("1.3")\n@kotlin.js.JsName("\ncontentDeepHashCodeImpl")\ninternal fun <T> Array<out T>?.contentDeepHashCodeImpl(): Int {\n if (this ==
null) return 0\n var result = 1\n for (element in this) {\n val elementHash = when {\n element == null
-> 0\n isArrayish(element) -> (element.unsafeCast<Array<*>>()).contentDeepHashCodeImpl()\n
 element is UByteArray -> element.contentHashCode()\n element is UShortArray ->
element.contentHashCode()\n element is UIntArray -> element.contentHashCode()\n element is
ULongArray -> element.contentHashCode()\n else -> element.hashCode()\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\nobject hashCode : EqualityComparator {\n override fun equals(value1: Any?, value2: Any?):
Boolean = value1 == value2\n override fun getHashCode(value: Any?): Int = value?.hashCode() ?: 0\n
}\n}", /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n/*\n *

```



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(ignored)\n * @param loadFactor the load factor (ignored)\n * \n * @throws IllegalArgumentException if
the initial capacity or load factor are negative\n * \n actual constructor(initialCapacity: Int, loadFactor: Float)
{\n map = HashMap<E, Any>(initialCapacity, loadFactor)\n } \n\n actual constructor(initialCapacity: Int) :
this(initialCapacity, 0.0f)\n\n /**\n * Protected constructor to specify the underlying map. This is used by\n *
LinkedHashSet.\n\n * @param map underlying map to use.\n * \n internal constructor(map: HashMap<E,
Any>) {\n this.map = map\n } \n\n actual override fun add(element: E): Boolean {\n val old =
map.put(element, this)\n return old == null\n } \n\n actual override fun clear() {\n map.clear()\n } \n\n//
public override fun clone(): Any {\n// return HashSet<E>(this)\n// } \n\n actual override operator fun
contains(element: E): Boolean = map.containsKey(element)\n\n actual override fun isEmpty(): Boolean =
map.isEmpty()\n\n actual override fun iterator(): MutableIterator<E> = map.keys.iterator()\n\n actual override
fun remove(element: E): Boolean = map.remove(element) != null\n\n actual override val size: Int get() =
map.size\n\n } \n\n /**\n * Creates a new instance of the specialized implementation of [HashSet] with the specified
[String] elements,\n * which elements the keys as properties of JS object without hashing them.\n * \n\n public fun
stringSetOf(vararg elements: String): HashSet<String> {\n return HashSet(stringMapOf<Any>()).apply {
addAll(elements) }\n } \n\n", "/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n * \n\n * \n\n * Based on GWT InternalHashCodeMap\n * Copyright 2008 Google Inc.\n
* \n\n\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\nimport
kotlin.collections.AbstractMutableMap.SimpleEntry\n\n\n /**\n * A simple wrapper around JavaScriptObject to
provide [java.util.Map]-like semantics for any\n * key type.\n * \n\n * \n\n * Implementation notes:\n * \n\n * \n\n * A key's
hashCode is the index in backingMap which should contain that key. Since several keys may\n * have the same
hash, each value in hashCodeMap is actually an array containing all entries whose\n * keys share the same hash.\n
* \n\n\ninternal class InternalHashCodeMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V>
{\n\n private var backingMap: dynamic = createJsMap()\n override var size: Int = 0\n private set\n\n
override fun put(key: K, value: V): V? {\n val hashCode = equality.getHashCode(key)\n val chainOrEntry
= getChainOrEntryOrNull(hashCode)\n if (chainOrEntry == null) {\n // This is a new chain, put it to the
map.\n backingMap[hashCode] = SimpleEntry(key, value)\n } else {\n if (chainOrEntry !is
Array<*>) {\n // It is an entry\n val entry: SimpleEntry<K, V> = chainOrEntry\n if
(equality.equals(entry.key, key)) {\n return entry.setValue(value)\n } else {\n
backingMap[hashCode] = arrayOf(entry, SimpleEntry(key, value))\n size++\n return null\n
}\n } else {\n // Chain already exists, perhaps key also exists.\n val chain:
Array<MutableEntry<K, V>> = chainOrEntry\n val entry = chain.findEntryInChain(key)\n if
(entry != null) {\n return entry.setValue(value)\n }\n }\n chain.asDynamic().push(SimpleEntry(key, value))\n }\n }\n size++\n\n structureChanged(host)\n
return null\n } \n\n override fun remove(key: K): V? {\n val hashCode = equality.getHashCode(key)\n
val chainOrEntry = getChainOrEntryOrNull(hashCode) ?: return null\n if (chainOrEntry !is Array<*>) {\n
val entry: MutableEntry<K, V> = chainOrEntry\n if (equality.equals(entry.key, key)) {\n
jsDeleteProperty(backingMap, hashCode)\n size--\n return entry.value\n } else {\n
return null\n }\n } else {\n val chain: Array<MutableEntry<K, V>> = chainOrEntry\n for
(index in chain.indices) {\n val entry = chain[index]\n if (equality.equals(key, entry.key)) {\n
if (chain.size == 1) {\n chain.asDynamic().length = 0\n // remove the whole
array\n jsDeleteProperty(backingMap, hashCode)\n } else {\n // splice out
the entry we're removing\n chain.asDynamic().splice(index, 1)\n }\n size--\n\n
structureChanged(host)\n return entry.value\n }\n }\n }\n return null\n
}\n\n override fun clear() {\n backingMap = createJsMap()\n size = 0\n }\n\n override fun
contains(key: K): Boolean = getEntry(key) != null\n\n override fun get(key: K): V? = getEntry(key)?.value\n\n
private fun getEntry(key: K): MutableEntry<K, V>? {\n val chainOrEntry =
getChainOrEntryOrNull(equality.getHashCode(key)) ?: return null\n if (chainOrEntry !is Array<*>) {\n

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structureChanged(host)\n return null\n } else {\n// valueMod++\n return
oldValue.unsafeCast<V>()\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// structureChanged(host)\n return value.unsafeCast<V>()\n } else {\n//
valueMod++\n return null\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 override fun hasNext(): Boolean = iterator.hasNext()\n override fun next():
MutableEntry<K, V> {\n val key = iterator.next()\n lastKey = key\n
@Override\n @Suppress("UNCHECKED_CAST")\n return newMapEntry(key as K)\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 override fun
setValue(newValue: V): V = this@InternalStringMap.put(key, newValue).unsafeCast<V>()\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 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n */\n */\n * Based on GWT LinkedHashMap\n * Copyright 2008 Google Inc.\n */\npackage
kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\n\n/**\n * Hash table based
implementation of the [MutableMap] interface, which additionally preserves the insertion order\n * of entries during
the iteration.\n * The insertion order is preserved by maintaining a doubly-linked list of all of its entries.\n
*/\n\npublic actual open class LinkedHashMap<K, V> : HashMap<K, V>, MutableMap<K, V> {\n\n /**\n * The
entry we use includes next/prev pointers for a doubly-linked circular\n * list with a head node. This reduces the
special cases we have to deal with\n * in the list operations.\n * Note that we duplicate the key from the
underlying hash map so we can find\n * the eldest entry. The alternative would have been to modify HashMap so
more\n * of the code was directly usable here, but this would have added some\n * overhead to HashMap, or to
reimplement most of the HashMap code here with\n * small modifications. Paying a small storage cost only if
you use\n * LinkedHashMap and minimizing code size seemed like a better tradeoff\n */\n private inner class
ChainEntry<K, V>(key: K, value: V) : AbstractMutableMap.SimpleEntry<K, V>(key, value) {\n internal var
next: ChainEntry<K, V>? = null\n internal var prev: ChainEntry<K, V>? = null\n override fun
setValue(newValue: V): V {\n this@LinkedHashMap.checkIsMutable()\n return
super.setValue(newValue)\n }\n }\n private inner class EntrySet : AbstractEntrySet<MutableEntry<K,
V>, K, V>() {\n private inner class EntryIterator : MutableIterator<MutableEntry<K, V>> {\n // The
last entry that was returned from this iterator.\n private var last: ChainEntry<K, V>? = null\n // The
next entry to return from this iterator.\n private var next: ChainEntry<K, V>? = null\n init {\n
next = head\n// recordLastKnownStructure(map, this)\n }\n override fun hasNext():
Boolean {\n return next !== null\n }\n override fun next(): MutableEntry<K, V> {\n//
checkStructuralChange(map, this)\n if (!hasNext()) throw NoSuchElementException()\n val
current = next!!\n last = current\n next = current.next.takeIf { it !== head }\n return
current\n }\n }\n override fun remove() {\n check(last != null)\n
this@EntrySet.checkIsMutable()\n// checkStructuralChange(map, this)\n last!!.remove()\n
map.remove(last!!.key)\n// recordLastKnownStructure(map, this)\n last = null\n }\n
}\n }\n override fun add(element: MutableEntry<K, V>): Boolean = throw
UnsupportedOperationException("Add is not supported on entries")\n override fun clear() {\n
this@LinkedHashMap.clear()\n }\n }\n override fun containsEntry(element: Map.Entry<K, V>): Boolean =

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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 */\n\n * Based on GWT LinkedHashMap\n * Copyright 2008 Google
Inc.\n */\n\npackage kotlin.collections\n\n/**\n * The implementation of the [MutableSet] interface, backed by a
[LinkedHashMap] instance.\n */\n * This implementation preserves the insertion order of elements during the
iteration.\n */\n\npublic actual open class LinkedHashMap<E> : HashSet<E>, MutableSet<E> {\n\n internal
constructor(map: LinkedHashMap<E, Any>) : super(map)\n\n /**\n * Constructs a new empty
[LinkedHashSet].\n */\n actual constructor() : super(LinkedHashMap<E, Any>())\n\n /**\n * Constructs a
new [LinkedHashSet] filled with the elements of the specified collection.\n */\n actual constructor(elements:
Collection<E>) : super(LinkedHashMap<E, Any>()) {\n addAll(elements)\n }\n\n /**\n * Constructs a
new empty [LinkedHashSet].\n */\n /**\n * @param initialCapacity the initial capacity (ignored)\n * @param
loadFactor the load factor (ignored)\n */\n /**\n * @throws IllegalArgumentException if the initial capacity or
load factor are negative\n */\n actual constructor(initialCapacity: Int, loadFactor: Float) :
super(LinkedHashMap<E, Any>(initialCapacity, loadFactor))\n\n actual constructor(initialCapacity: Int) :
this(initialCapacity, 0.0f)\n\n @PublishedApi\n internal fun build(): Set<E> {\n (map as
LinkedHashMap<E, Any>).build()\n return this\n }\n\n internal override fun checkIsMutable(): Unit =
map.checkIsMutable()\n\n // public override fun clone(): Any {\n // return LinkedHashMap(this)\n // }\n\n}\n\n/**\n * Creates a new instance of the specialized implementation of [LinkedHashSet] with the specified
[String] elements,\n * which elements the keys as properties of JS object without hashing them.\n */\n\npublic fun
linkedStringSetOf(vararg elements: String): LinkedHashMap<String> {\n return
LinkedHashSet(linkedStringMapOf<Any>()).apply { addAll(elements) }\n}\n\n", /*\n * Copyright 2010-2020
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport
kotlin.contracts.*\n\n@DeprecatedSinceKotlin(warningSince = \"1.6\")\n@Deprecated(\"Synchronization on any
object is not supported in Kotlin/JS\",
ReplaceWith(\"run(block)\"))\n\n@kotlin.internal.InlineOnly\n@Suppress(\"UNUSED_PARAMETER\")\n\npublic
inline fun <R> synchronized(lock: Any, block: () -> R): R {\n contract {\n callsInPlace(block,
InvocationKind.EXACTLY_ONCE)\n }\n return block()\n}\n\n", /*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.io\n\ninternal abstract class BaseOutput {\n
open fun println() {\n print(\"\\n\")\n }\n\n open fun println(message: Any?) {\n print(message)\n
println()\n }\n\n abstract fun print(message: Any?)\n\n open fun flush() {\n }\n}\n\n/** JsName used to make the
declaration available outside of module to test it */\n\n@JsName(\"NodeJsOutput\")\n\ninternal class NodeJsOutput(val
outputStream: dynamic) : BaseOutput() {\n override fun print(message: Any?) {\n // TODO: Using local
variable because of bug in block decomposition lowering in IR backend\n val messageString =
String(message)\n outputStream.write(messageString)\n }\n}\n\n/** JsName used to make the declaration
available outside of module to test it */\n\n@JsName(\"OutputToConsoleLog\")\n\ninternal class OutputToConsoleLog
: BaseOutput() {\n override fun print(message: Any?) {\n console.log(message)\n }\n\n override fun
println(message: Any?) {\n console.log(message)\n }\n\n override fun println() {\n console.log(\"\")\n
}\n}\n\n/** JsName used to make the declaration available outside of module to test it and use at try.kotl.in
*/\n\n@JsName(\"BufferedOutput\")\n\ninternal open class BufferedOutput : BaseOutput() {\n var buffer = \"\"\n\n override fun print(message: Any?) {\n buffer += String(message)\n }\n\n override fun flush() {\n buffer
= \"\"\n }\n}\n\n/** JsName used to make the declaration available outside of module to test it
*/\n\n@JsName(\"BufferedOutputToConsoleLog\")\n\ninternal class BufferedOutputToConsoleLog : BufferedOutput()
{\n override fun print(message: Any?) {\n var s = String(message)\n val i = s.nativeLastIndexOf(\"\n\",
0)\n if (i >= 0) {\n buffer += s.substring(0, i)\n flush()\n s = s.substring(i + 1)\n }\n buffer += s\n }\n\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\n@JsName(\"output\")\n\ninternal var output = run {\n val isNode: Boolean = js(\"typeof process !== 'undefined'\

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&& process.versions && !process.versions.node")\n if (isNode) NodeJsOutput(js("process.stdout")) else
BufferedOutputToConsoleLog()\n}\n\n@kotlin.internal.InlineOnly\nprivate inline fun String(value: Any?): String =
js("String")(value)\n\n/** Prints the line separator to the standard output stream. */\npublic actual fun println() {\n
output.println()\n}\n\n/** Prints the given [message] and the line separator to the standard output stream. */\npublic
actual fun println(message: Any?) {\n output.println(message)\n}\n\n/** Prints the given [message] to the standard
output stream. */\npublic actual fun print(message: Any?) {\n
output.print(message)\n}\n\n@SinceKotlin("1.6")\npublic actual fun readln(): String = throw
UnsupportedOperationException("readln is not supported in Kotlin/JS")\n\n@SinceKotlin("1.6")\npublic actual
fun readlnOrNull(): String? = throw UnsupportedOperationException("readlnOrNull is not supported in
Kotlin/JS"),"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
/\n\npackage kotlin.coroutines\n\nimport kotlin.coroutines.intrinsics.CoroutineSingletons.\nimport
kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal
actual class SafeContinuation<in T>\ninternal actual constructor(\n private val delegate: Continuation<T>,\n
initialResult: Any?\n) : Continuation<T> {\n @PublishedApi\n internal actual constructor(delegate:
Continuation<T>) : this(delegate, UNDECIDED)\n\n public actual override val context: CoroutineContext\n
get() = delegate.context\n\n private var result: Any? = initialResult\n\n public actual override fun
resumeWith(result: Result<T>) {\n val cur = this.result\n when {\n cur === UNDECIDED -> {\n
this.result = result.value\n }\n cur === COROUTINE_SUSPENDED -> {\n this.result =
RESUMED\n delegate.resumeWith(result)\n }\n else -> throw
IllegalStateException("Already resumed")\n }\n }\n\n @PublishedApi\n internal actual fun
getOrThrow(): Any? {\n if (result === UNDECIDED) {\n result = COROUTINE_SUSPENDED\n
return COROUTINE_SUSPENDED\n }\n val result = this.result\n return when {\n result ===
RESUMED -> COROUTINE_SUSPENDED // already called continuation, indicate COROUTINE_SUSPENDED
upstream\n result is Result.Failure -> throw result.exception\n else -> result // either
COROUTINE_SUSPENDED or data\n }\n }\n}\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.coroutines.cancellation\n\n@SinceKotlin("1.4")\npublic actual open class CancellationException :
IllegalStateException {\n actual constructor() : super()\n actual constructor(message: String?) : super(message)\n
 constructor(message: String?, cause: Throwable?) : super(message, cause)\n constructor(cause: Throwable?) :
super(cause)\n}\n\n"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.coroutines.js.internal\n\nimport kotlin.coroutines.Continuation\nimport
kotlin.coroutines.EmptyCoroutineContext\n\n@PublishedApi\n@SinceKotlin("1.3")\ninternal val
EmptyContinuation = Continuation<Any?>(EmptyCoroutineContext) { result ->\n result.getOrThrow()\n}\n\n"/*\n
* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.js\n\n/**\n * Exposes the [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\n public constructor(dateString: String)\n\n public constructor(year: Int, month: Int)\n\n public
constructor(year: Int, month: Int, day: Int)\n\n public constructor(year: Int, month: Int, day: Int, hour: Int)\n\n
public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int)\n\n public constructor(year: Int, month:
Int, day: Int, hour: Int, minute: Int, second: Int)\n\n public constructor(year: Int, month: Int, day: Int, hour: Int,
minute: Int, second: Int, millisecond: Number)\n\n public fun getDate(): Int\n\n public fun getDay(): Int\n\n
public fun getFullYear(): Int\n\n public fun getHours(): Int\n\n public fun getMilliseconds(): Int\n\n public fun
getMinutes(): Int\n\n public fun getMonth(): Int\n\n public fun getSeconds(): Int\n\n public fun getTime():

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Double\n\n public fun getTimezoneOffset(): Int\n\n public fun getUTCDate(): Int\n\n public fun
getUTCDay(): Int\n\n public fun getUTCFullYear(): Int\n\n public fun getUTCHours(): Int\n\n public fun
getUTCMilliseconds(): Int\n\n public fun getUTCMinutes(): Int\n\n public fun getUTCMonth(): Int\n\n public
fun getUTCSeconds(): Int\n\n public fun toDateString(): String\n\n public fun toISOString(): String\n\n public
fun toJSON(): Json\n\n public fun toLocaleDateString(locales: Array<String> = definedExternally, options:
LocaleOptions = definedExternally): String\n\n public fun toLocaleDateString(locales: String, options:
LocaleOptions = definedExternally): String\n\n public fun toLocaleString(locales: Array<String> =
definedExternally, options: LocaleOptions = definedExternally): String\n\n public fun toLocaleString(locales:
String, options: LocaleOptions = definedExternally): String\n\n public fun toLocaleTimeString(locales:
Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\n\n public fun
toLocaleTimeString(locales: String, options: LocaleOptions = definedExternally): String\n\n public fun
toTimeString(): String\n\n public fun toUTCString(): String\n\n public companion object {\n public fun
now(): Double\n\n public fun parse(dateString: String): Double\n\n public fun UTC(year: Int, month: Int):
Double\n\n public fun UTC(year: Int, month: Int, day: Int): Double\n\n public fun UTC(year: Int, month:
Int, day: Int, hour: Int): Double\n\n public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int):
Double\n\n public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int): Double\n\n
public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond: Number): Double\n
}\n\n public interface LocaleOptions {\n public var localeMatcher: String?\n\n public var timeZone:
String?\n\n public var hour12: Boolean?\n\n public var formatMatcher: String?\n\n public var weekday:
String?\n\n public var era: String?\n\n public var year: String?\n\n public var month: String?\n\n
public var day: String?\n\n public var hour: String?\n\n public var minute: String?\n\n public var
second: String?\n\n public var timeZoneName: String? }\n}\n\npublic inline fun dateLocaleOptions(init:
Date.LocaleOptions.() -> Unit): Date.LocaleOptions {\n val result = js("new
Object()\n\n).unsafeCast<Date.LocaleOptions>()\n\n init(result)\n\n return result\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.dom\n\nimport
org.w3c.dom.Document\n\nimport org.w3c.dom.Element\n\nimport
kotlin.internal.LowPriorityInOverloadResolution\n\nimport kotlinx.dom.appendElement as
newAppendElement\n\nimport kotlinx.dom.createElement as newCreateElement\n\n/**\n * Creates a new element
with the specified [name].\n * The element is initialized with the specified [init] function.\n
*\n * @LowPriorityInOverloadResolution\n * @Deprecated(\n message = "This API is moved to another package,
use 'kotlinx.dom.createElement' instead.",\n\n replaceWith = ReplaceWith("this.createElement(name, init)",
"kotlinx.dom.createElement()")\n)\n\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")\n\npublic
inline fun Document.createElement(name: String, noinline init: Element.() -> Unit): Element =
this.newCreateElement(name, init)\n\n/**\n * Appends a newly created element with the specified [name] to this
element.\n * The element is initialized with the specified [init] function.\n
*\n * @LowPriorityInOverloadResolution\n * @Deprecated(\n message = "This API is moved to another package,
use 'kotlinx.dom.appendElement' instead.",\n\n replaceWith = ReplaceWith("this.appendElement(name, init)",
"kotlinx.dom.appendElement()")\n)\n\n@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")\n\npublic
inline fun Element.appendElement(name: String, noinline init: Element.() -> Unit): Element =
this.newAppendElement(name, init)\n\n"},"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport org.w3c.dom.Element\n\nimport
kotlin.internal.LowPriorityInOverloadResolution\n\nimport kotlinx.dom.addClass as newAddClass\n\nimport
kotlinx.dom.hasClass as newHasClass\n\nimport kotlinx.dom.removeClass as newRemoveClass\n\n/** Returns true if
the element has the given CSS class style in its 'class' attribute
*\n * @LowPriorityInOverloadResolution\n * @Deprecated(\n message = "This API is moved to another package,
use 'kotlinx.dom.hasClass' instead.",\n\n replaceWith = ReplaceWith("this.hasClass(cssClass)",

```

```

\kotlin.dom.hasClass()\n\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\ninline fun
Element.hasClass(cssClass: String): Boolean = this.newHasClass(cssClass)\n\n/**\n * Adds CSS class to element.
Has no effect if all specified classes are already in class attribute of the element\n *\n * @return true if at least one
class has been added\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n message = \"This API is moved
to another package, use 'kotlin.dom.addClass' instead.\",\n replaceWith =
ReplaceWith(\"this.addClass(cssClasses)\", \"kotlin.dom.addClass()\n\n@DeprecatedSinceKotlin(warningSince
= \"1.4\", errorSince = \"1.6\")\ninline fun Element.addClass(vararg cssClasses: String): Boolean =
this.newAddClass(*cssClasses)\n\n/**\n * Removes all [cssClasses] from element. Has no effect if all specified
classes are missing in class attribute of the element\n *\n * @return true if at least one class has been removed\n
*/\n@LowPriorityInOverloadResolution\n@Deprecated(\n message = \"This API is moved to another package,
use 'kotlin.dom.removeClass' instead.\",\n replaceWith = ReplaceWith(\"this.removeClass(cssClasses)\",
\"kotlin.dom.removeClass()\n\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\ninline
fun Element.removeClass(vararg cssClasses: String): Boolean = this.newRemoveClass(*cssClasses)\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.Element\nimport org.w3c.dom.Node\nimport
kotlin.internal.LowPriorityInOverloadResolution\nimport kotlin.dom.isElement as newIsElement\nimport
kotlin.dom.isText as newIsText\n\n/**\n * Gets a value indicating whether this node is a TEXT_NODE or a
CDATA_SECTION_NODE.\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n message = \"This API
is moved to another package, use 'kotlin.dom.isText' instead.\",\n replaceWith = ReplaceWith(\"this.isText\",
\"kotlin.dom.isText()\n\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic val
Node.isText: Boolean\n inline get() = this.newIsText()\n\n/**\n * Gets a value indicating whether this node is an
[Element].\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n message = \"This API is moved to
another package, use 'kotlin.dom.isElement' instead.\",\n replaceWith = ReplaceWith(\"this.isElement\",
\"kotlin.dom.isElement()\n\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic val
Node.isElement: Boolean\n inline get() = this.newIsElement()\n\n/**\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage org.w3c.dom.events\n\npublic fun
EventListener(handler: (Event) -> Unit): EventListener = EventListenerHandler(handler)\n\nprivate class
EventListenerHandler(private val handler: (Event) -> Unit) : EventListener {\n public override fun
handleEvent(event: Event) {\n handler(event)\n }\n\n public override fun toString(): String =
\"EventListenerHandler($handler)\n\n/**\n * 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 * 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 * 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.Element\nimport
org.w3c.dom.Node\nimport kotlin.internal.LowPriorityInOverloadResolution\nimport kotlin.dom.appendText as
newAppendText\nimport kotlin.dom.clear as newClear\n\n/**\n * Removes all the children from this node.\n
*/\n@LowPriorityInOverloadResolution\n@Deprecated(\n message = \"This API is moved to another package,
use 'kotlin.dom.clear' instead.\",\n replaceWith = ReplaceWith(\"this.clear()\",
\"kotlin.dom.clear()\n\n@DeprecatedSinceKotlin(warningSince = \"1.4\", errorSince = \"1.6\")\npublic inline fun
Node.clear() = this.newClear()\n\n/**\n * Creates text node and append it to the element.\n *\n * @return this
element\n */\n@LowPriorityInOverloadResolution\n@Deprecated(\n message = \"This API is moved to another

```

```

package, use 'kotlinx.dom.appendText' instead.`,\n replaceWith = ReplaceWith(`this.appendText(text)`),
`kotlinx.dom.appendText`)`)\n\n@DeprecatedSinceKotlin(warningSince = `1.4`, errorSince = `1.6`)\ninline fun
Element.appendText(text: String): Element = this.newAppendText(text)\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\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\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@JsName(`unsafeCastDynamic`)\n@kotlin.internal.InlineOnly\npublic
inline fun <T> dynamic.unsafeCast(): @kotlin.internal.NoInfer T = this\n\n/**\n * Allows to iterate this `dynamic`
object in the following cases:\n * - when it has an `iterator` function,\n * - when it is an array\n * - when it is an
instance of [kotlin.collections.Iterable]\n */\n\n@kotlin.internal.DynamicExtension\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\n else ->\n (r as Iterable<*>).iterator()\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`)\ninternal fun throwNPE(message: String) {\n throw
NullPointerException(message)\n}\n\n@JsName(`throwCCE`)\ninternal fun throwCCE() {\n throw
ClassCastException(`Illegal cast`)\n}\n\n@JsName(`throwISE`)\ninternal fun throwISE(message: String) {\n
 throw IllegalStateException(message)\n}\n\n@JsName(`throwUPAE`)\ninternal fun throwUPAE(propertyName:
String) {\n throw UninitializedPropertyAccessException(`lateinit property ${propertyName} has not been
initialized`)\n}\n`"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.collections\n\n/**\n * Groups elements from the [Grouping] source by key and counts elements
in each group.\n * @return a [Map] associating the key of each group with the count of elements in the group.\n
*/\n * @sample samples.collections.Grouping.groupingByEachCount\n */\n\n@SinceKotlin(`1.1`)\npublic actual fun
<T, K> Grouping<T, K>.eachCount(): Map<K, Int> =\n fold(0) { acc, _ -> acc + 1 }\n\n/**\n * Groups
elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements
in each group.\n * @return a [Map] associating the key of each group with the count of element in the group.\n
*/\n\n@SinceKotlin(`1.1`)\npublic inline fun <T, K> Grouping<T, K>.eachSumOf(valueSelector: (T) -> Int):
Map<K, Int> =\n fold(0) { acc, e -> acc + valueSelector(e) }\n`"/*\n * 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.JvmName(`GroupingKt`)\n@file:kotlin.jvm.JvmMultifileClass\n\npackage
kotlin.collections\n\n/**\n * Represents a source of elements with a [keyOf] function, which can be applied to each
element to get its key.\n * A [Grouping] structure serves as an intermediate step in group-and-fold operations:\n
* they group elements by their keys and then fold each group with some aggregating operation.\n * It is created
by attaching `keySelector: (T) -> K` function to a source of elements.\n * To get an instance of [Grouping] use one
of `groupingBy` extension functions:\n * - [Iterable.groupingBy]\n * - [Sequence.groupingBy]\n * -
[Array.groupingBy]\n * - [CharSequence.groupingBy]\n */\n * For the list of group-and-fold operations available,
see the [extension functions](#extension-functions) for `Grouping`.\n */\n\n@SinceKotlin(`1.1`)\npublic interface
Grouping<T, out K> {\n /** Returns an [Iterator] over the elements of the source of this grouping. */\n fun
sourceIterator(): Iterator<T>\n\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.

- The key for each element is provided by the `[Grouping.keyOf]` function.
- @param operation function is invoked on each element with the following parameters:
  - ``key``: the key of the group this element belongs to;
  - ``accumulator``: the current value of the accumulator of the group, can be ``null`` if it's the first ``element`` encountered in the group;
  - ``element``: the element from the source being aggregated;
  - ``first``: indicates whether it's the first ``element`` encountered in the group.

@return a `[Map]` associating the key of each group with the result of aggregation of the group elements.

@sample

```
samples.collections.Grouping.aggregateByRadix
```

```

^@SinceKotlin("1.1")
public inline fun <T, K, R>
Grouping<T, K>.aggregate(
 operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R): Map<K,
R> {
 return aggregateTo(mutableMapOf<K, R>(), operation)
}

```

Groups elements from the `[Grouping]` source by key and applies `[operation]` to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments, and stores the results in the given `[destination]` map.

- The key for each element is provided by the `[Grouping.keyOf]` function.
- @param operation a function that is invoked on each element with the following parameters:
  - ``key``: the key of the group this element belongs to;
  - ``accumulator``: the current value of the accumulator of the group, can be ``null`` if it's the first ``element`` encountered in the group;
  - ``element``: the element from the source being aggregated;
  - ``first``: indicates whether it's the first ``element`` encountered in the group.

If the `[destination]` map already has a value corresponding to some key, then the elements being aggregated for that key are never considered as ``first``.

@return the `[destination]` map associating the key of each group with the result of aggregation of the group elements.

@sample

```
samples.collections.Grouping.aggregateByRadixTo
```

```

^@SinceKotlin("1.1")
public inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T,
K>.aggregateTo(
 destination: M,
 operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R): M
{
 for (e in this.sourceIterator()) {
 val key = keyOf(e)
 val accumulator = destination[key]
 destination[key] = operation(key, accumulator, e, accumulator == null && !destination.containsKey(key))
 }
 return destination
}

```

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 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.
- @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 a `[Map]` associating the key of each group with the result of accumulating the group elements.

@sample

```
samples.collections.Grouping.foldByEvenLengthWithComputedInitialValue
```

```

^@SinceKotlin("1.1")
public inline fun <T, K, R> Grouping<T, K>.fold(
 initialValueSelector: (key: K,
element: T) -> R,
 operation: (key: K, accumulator: R, element: T) -> R): Map<K, R> =
@Suppress("UNCHECKED_CAST")
aggregate { key, acc, e, first -> operation(key, if (first)
initialValueSelector(key, e) else acc as R, e) }

```

Groups elements from the `[Grouping]` source by key and applies `[operation]` to the elements of each group sequentially, passing the previously accumulated value and the current element as arguments, 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\n *\n@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) }\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 the same
[initialValue] for each group.\n * \n * @param operation a function that is invoked on each element with the
following parameters:\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.foldByEvenLengthWithConstantInitialValue\n *\n@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) }\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 * An initial value of accumulator
is the same [initialValue] for each 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.\n * \n * @param operation
a function that is invoked on each element with the following parameters:\n * - `accumulator`: the current value of
the accumulator of the group;\n * - `element`: the element from the source being accumulated.\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.foldByEvenLengthWithConstantInitialValueTo\n
*\n@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) }\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
*\n * passing the previously accumulated value and the current element as arguments,\n * and stores the results in a new
map.\n * An initial value of accumulator is the first element of the group.\n * \n * @param operation a function that
is invoked on each subsequent element of the group 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.reduceByMaxVowels\n
*\n@SinceKotlin("1.1")\npublic inline fun <S, T : S, K> Grouping<T, K>.reduce(\n operation: (key: K,
accumulator: S, element: T) -> S\n): Map<K, S> =\n
aggregate { key, acc, e, first ->\n
@Suppress("UNCHECKED_CAST")\n if (first) e else operation(key, acc as S, e)\n } }\n\n\n/**\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,

```



```

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 2010-2021 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\npackage kotlin.math\n\nimport kotlin.internal.InlineOnly\nimport kotlin.js.JsMath
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 */\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 */\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 */\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 */\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 */\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 */\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
*\n * @SinceKotlin("1.2")\n */\n@InlineOnly\npublic actual inline fun atan2(y: Double, x: Double): Double =
nativeMath.atan2(y, x)\n\n/** Computes the hyperbolic sine of the value [x].\n * \n * Special cases:\n * -
`sinh(NaN)` is `NaN`\n * - `sinh(+Inf)` is `+Inf`\n * - `sinh(-Inf)` is `-Inf`\n
*\n * @SinceKotlin("1.2")\n */\n@InlineOnly\npublic actual inline fun sinh(x: Double): Double =
nativeMath.sinh(x)\n\n/** Computes the hyperbolic cosine of the value [x].\n * \n * Special cases:\n * -
`cosh(NaN)` is `NaN`\n * - `cosh(+Inf|-Inf)` is `+Inf`\n * \n * @SinceKotlin("1.2")\n */\n@InlineOnly\npublic actual
inline fun cosh(x: Double): Double = nativeMath.cosh(x)\n\n/** Computes the hyperbolic tangent of the value
[x].\n * \n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(+Inf)` is `1.0`\n * - `tanh(-Inf)` is `-1.0`\n
*\n * @SinceKotlin("1.2")\n */\n@InlineOnly\npublic actual inline fun tanh(x: Double): Double =
nativeMath.tanh(x)\n\n/** Computes the inverse hyperbolic sine of the value [x].\n * \n * The returned value is
`y` such that `sinh(y) == x`.\n * \n * Special cases:\n * - `asinh(NaN)` is `NaN`\n * - `asinh(+Inf)` is `+Inf`\n * -
`asinh(-Inf)` is `-Inf`\n * \n * @SinceKotlin("1.2")\n */\n@InlineOnly\npublic actual inline fun asinh(x: Double): Double
= nativeMath.asinh(x)\n\n/** Computes the inverse hyperbolic cosine of the value [x].\n * \n * The returned
value is positive `y` such that `cosh(y) == x`.\n * \n * Special cases:\n * - `acosh(NaN)` is `NaN`\n * - `acosh(x)`
is `NaN` when `x < 1`\n * - `acosh(+Inf)` is `+Inf`\n * \n * @SinceKotlin("1.2")\n */\n@InlineOnly\npublic actual inline
fun acosh(x: Double): Double = nativeMath.acosh(x)\n\n/** Computes the inverse hyperbolic tangent of the

```

value [x].  
 \* The returned value is `y` such that  $\tanh(y) == x$ .  
 \* Special cases:  
 -  $\tanh(\text{NaN})$  is  $\text{NaN}$   
 -  $\tanh(x)$  is  $\text{NaN}$  when  $x > 1$  or  $x < -1$   
 -  $\tanh(1.0)$  is  $+\text{Inf}$   
 -  $\tanh(-1.0)$  is  $-\text{Inf}$

```
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun atanh(x: Double): Double =
 nativeMath.atanh(x)
```

\* Computes  $\sqrt{x^2 + y^2}$  without intermediate overflow or underflow.  
 \* Special cases:  
 - returns  $+\text{Inf}$  if any of arguments is infinite  
 - returns  $\text{NaN}$  if any of arguments is  $\text{NaN}$  and the other is not infinite

```
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun hypot(x: Double, y: Double): Double = nativeMath.hypot(x, y)
```

\* Computes the positive square root of the value [x].  
 \* Special cases:  
 -  $\sqrt{x}$  is  $\text{NaN}$  when  $x < 0$  or  $x$  is  $\text{NaN}$

```
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun sqrt(x: Double): Double =
 nativeMath.sqrt(x)
```

\* Computes Euler's number `e` raised to the power of the value [x].  
 \* Special cases:  
 -  $\exp(\text{NaN})$  is  $\text{NaN}$   
 -  $\exp(+\text{Inf})$  is  $+\text{Inf}$   
 -  $\exp(-\text{Inf})$  is  $0.0$

```
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun exp(x: Double): Double =
 nativeMath.exp(x)
```

\* 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  $\text{NaN}$   
 -  $\text{expm1}(+\text{Inf})$  is  $+\text{Inf}$   
 -  $\text{expm1}(-\text{Inf})$  is  $-1.0$   
 \* @see [exp] function.

```
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun expm1(x: Double): Double = nativeMath.expm1(x)
```

\* Computes the logarithm of the value [x] to the given [base].  
 \* Special cases:  
 -  $\log(x, b)$  is  $\text{NaN}$  if either  $x$  or  $b$  are  $\text{NaN}$   
 -  $\log(x, b)$  is  $\text{NaN}$  when  $x < 0$  or  $b \leq 0$  or  $b == 1.0$   
 -  $\log(+\text{Inf}, +\text{Inf})$  is  $\text{NaN}$   
 -  $\log(+\text{Inf}, b)$  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].

```
@SinceKotlin("1.2")
public actual fun log(x: Double, base: Double): Double {
 if (base <= 0.0 || base == 1.0) return Double.NaN
 return nativeMath.log(x) / nativeMath.log(base)
}
```

\* Computes the natural logarithm (base `E`) of the value [x].  
 \* Special cases:  
 -  $\ln(\text{NaN})$  is  $\text{NaN}$   
 -  $\ln(x)$  is  $\text{NaN}$  when  $x < 0.0$   
 -  $\ln(+\text{Inf})$  is  $+\text{Inf}$   
 -  $\ln(0.0)$  is  $-\text{Inf}$

```
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun ln(x: Double): Double =
 nativeMath.log(x)
```

\* Computes the common logarithm (base 10) of the value [x].  
 \* @see [ln] function for special cases.

```
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun log10(x: Double): Double =
 nativeMath.log10(x)
```

\* Computes the binary logarithm (base 2) of the value [x].  
 \* @see [ln] function for special cases.

```
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun log2(x: Double): Double =
 nativeMath.log2(x)
```

\* Computes  $\ln(x + 1)$ .  
 \* This function can be implemented to produce more precise result for [x] near zero.  
 \* Special cases:  
 -  $\ln1p(\text{NaN})$  is  $\text{NaN}$   
 -  $\ln1p(x)$  is  $\text{NaN}$  where  $x < -1.0$   
 -  $\ln1p(-1.0)$  is  $-\text{Inf}$   
 -  $\ln1p(+\text{Inf})$  is  $+\text{Inf}$   
 \* @see [ln] function  
 \* @see [expm1] function

```
@SinceKotlin("1.2")
@InlineOnly
public 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:  
 -  $\text{ceil}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.

```
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun ceil(x: Double): Double =
 nativeMath.ceil(x)
```

\* Rounds the given value [x] to an integer towards negative infinity.  
 \* @return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.  
 \* Special cases:  
 -  $\text{floor}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.

```
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun floor(x: Double): Double =
 nativeMath.floor(x)
```

\* Rounds the given value [x] to an integer towards zero.  
 \* @return the value [x] having its fractional part truncated.  
 \* Special cases:  
 -  $\text{truncate}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.

```
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun truncate(x: Double): Double = nativeMath.trunc(x)
```

\* Rounds the given value [x] towards the closest integer with ties rounded towards even integer.  
 \* Special cases:  
 -  $\text{round}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.

```
@SinceKotlin("1.2")
public actual fun round(x: Double): Double {
 if (x % 0.5 != 0.0) {
 return nativeMath.round(x)
 }
 val floor = floor(x)
 return if (floor % 2 == 0.0) floor else ceil(x)
}
```

\* Returns the absolute value of the given value [x].  
 \* Special cases:  
 -

``abs(NaN)`` is ``NaN``\n \* \n \* @see absoluteValue extension property for [Double]\n
   
`*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun abs(x: Double): Double =`
  
`nativeMath.abs(x)\n\n/**\n * Returns the sign of the given value [x]:\n * -`-1.0` if the value is negative,\n * - zero`
  
`if the value is zero,\n * -`1.0` if the value is positive\n * \n * Special case:\n * -`sign(NaN)` is `NaN`\n`
  
`*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sign(x: Double): Double =`
  
`nativeMath.sign(x)\n\n/**\n * Returns the smaller of two values.\n * \n * If either value is `NaN`, then the result is`
  
``NaN`.\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun min(a: Double, b: Double): Double =`
  
`nativeMath.min(a, b)\n\n/**\n * Returns the greater of two values.\n * \n * If either value is `NaN`, then the result is`
  
``NaN`.\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun max(a: Double, b: Double): Double =`
  
`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@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Double.pow(x: Double): Double =`
  
`nativeMath.pow(this, x)\n\n/**\n * Raises this value to the integer power [n].\n * \n * See the other overload of`
  
`[pow] for details.\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Double.pow(n: Int): Double`
  
`= nativeMath.pow(this, n.toDouble())\n\n/**\n * Returns the absolute value of this value.\n * \n * Special cases:\n * -`
  
``NaN.absoluteValue` is `NaN`\n * \n * @see abs function\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic`
  
`actual inline val Double.absoluteValue: Double get() = nativeMath.abs(this)\n\n/**\n * Returns the sign of this`
  
`value:\n * -`-1.0` if the value is negative,\n * - zero if the value is zero,\n * -`1.0` if the value is positive\n * \n * Special case:\n * -`NaN.sign` is `NaN`\n`
  
`*\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val`
  
`Double.sign: Double get() = nativeMath.sign(this)\n\n/**\n * Returns this value with the sign bit same as of the`
  
`[sign] value.\n *\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Double.withSign(sign: Int):`
  
`Double = this.withSign(sign.toDouble())\n\n/**\n * Returns the ulp (unit in the last place) of this value.\n * \n * An`
  
`ulp is a positive distance between this value and the next nearest [Double] value larger in magnitude.\n * \n * Special`
  
`Cases:\n * -`NaN.ulp` is `NaN`\n * -`x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`\n * -`0.0.ulp` is`
  
``Double.MIN_VALUE`\n *\n@SinceKotlin("1.2")\npublic actual val Double.ulp: Double get() = when {\n this`
  
`< 0 -> (-this).ulp\n this.isNaN() || this == Double.POSITIVE_INFINITY -> this\n this ==`
  
`Double.MAX_VALUE -> this - this.nextDown()\n else -> this.nextUp() - this}\n\n/**\n * Returns the [Double]`
  
`value nearest to this value in direction of positive infinity.\n *\n@SinceKotlin("1.2")\npublic actual fun`
  
`Double.nextUp(): Double = when {\n this.isNaN() || this == Double.POSITIVE_INFINITY -> this\n this == 0.0`
  
`-> Double.MIN_VALUE\n else -> Double.fromBits(this.toRawBits() + if (this > 0) 1 else -1)\n}\n\n/**\n *`
  
`Returns the [Double] value nearest to this value in direction of negative infinity.\n`
  
`*\n@SinceKotlin("1.2")\npublic actual fun Double.nextDown(): Double = when {\n this.isNaN() || this ==`
  
`Double.NEGATIVE_INFINITY -> this\n this == 0.0 -> -Double.MIN_VALUE\n else ->`
  
`Double.fromBits(this.toRawBits() + if (this > 0) -1 else 1)\n}\n\n/**\n * Returns the [Double] value nearest to this`
  
`value in direction from this value towards the value [to].\n * \n * Special cases:\n * -`x.nextTowards(y)` is `NaN` if`
  
`either `x` or `y` are `NaN`\n * -`x.nextTowards(x) == x`\n *\n@SinceKotlin("1.2")\npublic actual fun`
  
`Double.nextTowards(to: Double): Double = when {\n this.isNaN() || to.isNaN() -> Double.NaN\n to == this ->`
  
`to\n to > this -> this.nextUp()\n else /* to < this */ -> this.nextDown()\n}\n\n/**\n * Rounds this [Double]`
  
`value to the nearest integer and converts the result to [Int].\n * 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 actual fun Double.roundToInt(): Int = when {\n isNaN() -> throw`
  
`IllegalArgumentException("Cannot round NaN value.")\n this > Int.MAX_VALUE -> Int.MAX_VALUE\n`
  
`this < Int.MIN_VALUE -> Int.MIN_VALUE\n else -> nativeMath.round(this).toInt()\n}\n\n/**\n * Rounds this`
  
`[Double] value to the nearest integer and converts the result to [Long].\n * 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
@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).toLong()
}
// 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")
@InlineOnly
public 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")
@InlineOnly
public 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")
@InlineOnly
public 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")
@InlineOnly
public 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")
@InlineOnly
public 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")
@InlineOnly
public 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")
@InlineOnly
public 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(NaN) is NaN
 sinh(+Inf) is +Inf
 sinh(-Inf) is -
Inf
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun sinh(x: Float): Float =
 nativeMath.sinh(x.toDouble()).toFloat()
Computes the hyperbolic cosine of the value [x].
Special
cases:
 cosh(NaN) is NaN
 cosh(+Inf|-Inf) is +Inf
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun cosh(x: Float): Float =
 nativeMath.cosh(x.toDouble()).toFloat()
Computes the hyperbolic tangent of the value [x].
Special cases:
 tanh(NaN) is NaN
 tanh(+Inf) is 1.0
 tanh(-Inf) is -1.0
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun tanh(x: Float): Float =
 nativeMath.tanh(x.toDouble()).toFloat()
Computes the inverse hyperbolic sine of the value [x].
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")
@InlineOnly
public actual inline
fun asinh(x: Float): Float = 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:
 acosh(NaN) is NaN
 acosh(x) is NaN when x < 1
 acosh(+Inf) is +Inf
@SinceKotlin("1.2")
@InlineOnly
public actual inline fun acosh(x: Float): Float =
 nativeMath.acosh(x.toDouble()).toFloat()
Computes the inverse hyperbolic tangent of the value [x].
The returned value is `y` such that `tanh(y) == x`.
Special cases:
 tanh(NaN) is NaN
 tanh(x) is NaN when x > 1 or x < -1
 tanh(1.0) is +Inf
 tanh(-1.0) is -Inf

```

`@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun atanh(x: Float): Float =  
 nativeMath.atanh(x.toDouble()).toFloat()\n\n/**\n * Computes  $\sqrt{x^2 + y^2}$  without intermediate overflow or  
 underflow.\n * Special cases:\n * - returns  $+\infty$  if any of arguments is infinite\n * - returns  $\text{NaN}$  if any of  
 arguments is  $\text{NaN}$  and the other is not infinite\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun  
 hypot(x: Float, y: Float): Float = nativeMath.hypot(x.toDouble(), y.toDouble()).toFloat()\n\n/**\n * Computes the  
 positive square root of the value [x].\n * Special cases:\n * -  $\sqrt{x}$  is  $\text{NaN}$  when  $x < 0$  or  $x$  is  $\text{NaN}$ \n
 */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sqrt(x: Float): Float =  
 nativeMath.sqrt(x.toDouble()).toFloat()\n\n/**\n * Computes Euler's number  $e$  raised to the power of the value  
 [x].\n * Special cases:\n * -  $\exp(\text{NaN})$  is  $\text{NaN}$ \n * -  $\exp(+\infty)$  is  $+\infty$ \n * -  $\exp(-\infty)$  is  $0.0$ \n
 */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun exp(x: Float): Float =  
 nativeMath.exp(x.toDouble()).toFloat()\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 * -  $\expm1(\text{NaN})$  is  $\text{NaN}$ \n * -  
 $\expm1(+\infty)$  is  $+\infty$ \n * -  $\expm1(-\infty)$  is  $-1.0$ \n * @see [exp] function.\n
 */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun expm1(x: Float): Float =  
 nativeMath.expm1(x.toDouble()).toFloat()\n\n/**\n * Computes the logarithm of the value [x] to the given [base].\n
 *\n * Special cases:\n * -  $\log(x, b)$  is  $\text{NaN}$  if either  $x$  or  $b$  are  $\text{NaN}$ \n * -  $\log(x, b)$  is  $\text{NaN}$  when  $x < 0$   
 or  $b \leq 0$  or  $b == 1.0$ \n * -  $\log(+\infty, +\infty)$  is  $\text{NaN}$ \n * -  $\log(+\infty, b)$  is  $+\infty$  for  $b > 1$  and  $-\infty$  for  $b <$   
 $1$ \n * -  $\log(0.0, b)$  is  $-\infty$  for  $b > 1$  and  $+\infty$  for  $b > 1$ \n * See also logarithm functions for common  
 fixed bases: [ln], [log10] and [log2].\n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun log(x:  
 Float, base: Float): Float = log(x.toDouble(), base.toDouble()).toFloat()\n\n/**\n * Computes the natural logarithm  
 (base  $E$ ) of the value [x].\n * Special cases:\n * -  $\ln(\text{NaN})$  is  $\text{NaN}$ \n * -  $\ln(x)$  is  $\text{NaN}$  when  $x < 0.0$ \n
 * -  $\ln(+\infty)$  is  $+\infty$ \n * -  $\ln(0.0)$  is  $-\infty$ \n */\n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun  
 ln(x: Float): Float = nativeMath.log(x.toDouble()).toFloat()\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")\n@InlineOnly\npublic  
 actual inline fun log10(x: Float): Float = nativeMath.log10(x.toDouble()).toFloat()\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")\n@InlineOnly\npublic actual inline fun log2(x: Float): Float =  
 nativeMath.log2(x.toDouble()).toFloat()\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 * -  $\ln1p(\text{NaN})$  is  $\text{NaN}$ \n * -  $\ln1p(x)$   
 is  $\text{NaN}$  where  $x < -1.0$ \n * -  $\ln1p(-1.0)$  is  $-\infty$ \n * -  $\ln1p(+\infty)$  is  $+\infty$ \n * @see [ln] function\n
 * @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 * @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 * -  $\text{ceil}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\infty$  or  $-\infty$  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 * @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 * -  $\text{floor}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\infty$  or  $-\infty$  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 *  
 @return the value [x] having its fractional part truncated.\n * Special cases:\n * -  $\text{truncate}(x)$  is  $x$  where  $x$   
 is  $\text{NaN}$  or  $+\infty$  or  $-\infty$  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 * Special cases:\n * -  $\text{round}(x)$  is  $x$   
 where  $x$  is  $\text{NaN}$  or  $+\infty$  or  $-\infty$  or already a mathematical integer.\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 * Special cases:\n *  
 * -  $\text{abs}(\text{NaN})$  is  $\text{NaN}$ \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@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun sign(x: Float): Float =
nativeMath.sign(x.toDouble()).toFloat()\n\n\n/**\n * Returns the smaller of two values.\n * \n * If either value is
`NaN`, then the result is `NaN`.\n * \n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun min(a: Float, b:
Float): Float = nativeMath.min(a, b)\n\n\n/**\n * Returns the greater of two values.\n * \n * If either value is `NaN`,
then the result is `NaN`.\n * \n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun max(a: Float, b: Float):
Float = nativeMath.max(a, b)\n\n// extensions\n\n/**\n * Raises this value to the power [x].\n * \n * Special
cases:\n * - `b.pow(0.0)` is `1.0`\n * - `b.pow(1.0) == b`\n * - `b.pow(NaN)` is `NaN`\n * - `NaN.pow(x)` is
`NaN` for `x != 0.0`\n * - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n * - `b.pow(x)` is `NaN` for `b < 0` and `x` is
finite and not an integer\n * \n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.pow(x: Float):
Float = nativeMath.pow(this.toDouble(), x.toDouble()).toFloat()\n\n\n/**\n * Raises this value to the integer power
[n].\n * \n * See the other overload of [pow] for details.\n * \n@SinceKotlin("1.2")\n@InlineOnly\npublic actual
inline fun Float.pow(n: Int): Float = nativeMath.pow(this.toDouble(), n.toDouble()).toFloat()\n\n\n/**\n * Returns the
absolute value of this value.\n * \n * Special cases:\n * - `NaN.absoluteValue` is `NaN`\n * \n * @see abs function\n * \n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Float.absoluteValue: Float get() =
nativeMath.abs(this.toDouble()).toFloat()\n\n\n/**\n * Returns the sign of this value:\n * - -1.0` if the value is
negative,\n * - zero if the value is zero,\n * - 1.0` if the value is positive\n * \n * Special case:\n * - `NaN.sign` is
`NaN`\n * \n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline val Float.sign: Float get() =
nativeMath.sign(this.toDouble()).toFloat()\n\n\n/**\n * Returns this value with the sign bit same as of the [sign]
value.\n * \n * If [sign] is `NaN` the sign of the result is undefined.\n * \n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.withSign(sign: Float): Float =
this.toDouble().withSign(sign.toDouble()).toFloat()\n\n\n/**\n * Returns this value with the sign bit same as of the
[sign] value.\n * \n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.withSign(sign: Int): Float =
this.toDouble().withSign(sign.toDouble()).toFloat()\n\n\n/**\n * Rounds this [Float] value to the nearest integer and
converts the result to [Int].\n * \n * Ties are rounded towards positive infinity.\n * \n * Special cases:\n * -
`x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n * - `x.roundToInt() == Int.MIN_VALUE`
when `x < Int.MIN_VALUE`\n * \n * @throws IllegalArgumentException when this value is `NaN`\n * \n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.roundToInt(): Int =
toDouble().roundToInt()\n\n\n/**\n * Rounds this [Float] value to the nearest integer and converts the result to
[Long].\n * \n * Ties are rounded towards positive infinity.\n * \n * Special cases:\n * - `x.roundToLong() ==
Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n * - `x.roundToLong() == Long.MIN_VALUE` when `x
< Long.MIN_VALUE`\n * \n * @throws IllegalArgumentException when this value is `NaN`\n * \n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun Float.roundToLong(): Long =
toDouble().roundToLong()\n\n\n// endregion\n\n// region =====\n\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@// TODO: remove manual 'or' when KT-19290 is
fixed\n@SinceKotlin("1.2")\npublic actual fun abs(n: Int): Int = if (n < 0) (-n or 0) else n\n\n\n/**\n * Returns the
smaller of two values.\n * \n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun min(a: Int, b: Int): Int =
nativeMath.min(a, b)\n\n\n/**\n * Returns the greater of two values.\n * \n@SinceKotlin("1.2")\n@InlineOnly\npublic actual inline fun max(a: Int, b: Int): Int = nativeMath.max(a,
b)\n\n\n/**\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")\n@InlineOnly\npublic actual inline val Int.absoluteValue: Int get() = abs(this)\n\n\n/**\n * Returns the sign of this value:\n * - -1` if the value is negative,\n * - 0` if the value is zero,\n * - 1` if the value
is positive\n * \n@SinceKotlin("1.2")\npublic actual val Int.sign: Int get() = when {n this < 0 -> -1\n this > 0 -

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count: Int * `number.rotateLeft(-n) == number.rotateRight(n)`\n * Rotating by a multiple of [Int.SIZE_BITS] (32)
returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.rotateLeft(bitCount: Int): Int =\n shl(bitCount) or ushr(Int.SIZE_BITS - bitCount)\n\n/>\n * Rotates the
binary representation of this [Int] number right by the specified [bitCount] number of bits.\n * The least significant
bits pushed out from the right side reenter the number as the most significant bits on the left side.\n * Rotating
the number right by a negative bit count is the same as rotating it left by the negated bit count:\n *
`number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns
the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Int.rotateRight(bitCount: Int): Int =\n shl(Int.SIZE_BITS - bitCount) or ushr(bitCount)\n\n/>\n * Counts the
number of set bits in the binary representation of this [Long] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.countOneBits(): Int =\n high.countOneBits() + low.countOneBits()\n\n/>\n * Counts the number of
consecutive most significant bits that are zero in the binary representation of this [Long] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.countLeadingZeroBits(): Int =\n when (val high = this.high) {\n 0 -> Int.SIZE_BITS +
low.countLeadingZeroBits()\n else -> high.countLeadingZeroBits()\n }\n\n/>\n * Counts the number of
consecutive least significant bits that are zero in the binary representation of this [Long] number.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.countTrailingZeroBits(): Int =\n when (val low = this.low) {\n 0 -> Int.SIZE_BITS +
high.countTrailingZeroBits()\n else -> low.countTrailingZeroBits()\n }\n\n/>\n * Returns a number having a
single bit set in the position of the most significant set bit of this [Long] number,\n * or zero, if this number is
zero.\n * \n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.takeHighestOneBit(): Long =\n when (val high = this.high) {\n 0 -> Long(low.takeHighestOneBit(),
0)\n else -> Long(0, high.takeHighestOneBit())\n }\n\n/>\n * Returns a number having a single bit set in the
position of the least significant set bit of this [Long] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.takeLowestOneBit(): Long =\n when (val low = this.low) {\n 0 -> Long(0, high.takeLowestOneBit())\n
 else -> Long(low.takeLowestOneBit(), 0)\n }\n\n/>\n * Rotates the binary representation of this [Long]
number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side
reenter the number as the least significant bits on the right side.\n * Rotating the number left by a negative bit
count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) ==
number.rotateRight(n)`\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more
generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual fun
Long.rotateLeft(bitCount: Int): Long {\n if ((bitCount and 31) != 0) {\n val low = this.low\n val high =
this.high\n val newLow = low.shl(bitCount) or high.ushr(-bitCount)\n val newHigh = high.shl(bitCount) or
low.ushr(-bitCount)\n return if ((bitCount and 32) == 0) Long(newLow, newHigh) else Long(newHigh,
newLow)\n } else {\n return if ((bitCount and 32) == 0) this else Long(high, low)\n }\n\n/>\n *
Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.\n * The
least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n
*\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n *
`number.rotateRight(-n) == number.rotateLeft(n)`\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns
the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic
actual inline fun Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount)\n", /*\n * Copyright 2010-2018
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Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport
kotlin.internal.LowPriorityInOverloadResolution\n\n/**\n * Exposes the JavaScript [Promise
object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Promise) to Kotlin.\n
*/\n\n@Suppress("NOT_DOCUMENTED")\n\npublic open external class Promise<out T>(executor: (resolve: (T) ->
Unit, reject: (Throwable) -> Unit) -> Unit) {\n @LowPriorityInOverloadResolution\n public open fun <S>
then(onFulfilled: ((T) -> S)?): Promise<S>\n\n @LowPriorityInOverloadResolution\n public open fun <S>
then(onFulfilled: ((T) -> S)?, onRejected: ((Throwable) -> S)?): Promise<S>\n\n public open fun <S>
catch(onRejected: (Throwable) -> S): Promise<S>\n\n public open fun finally(onFinally: () -> Unit):
Promise<T>\n\n companion object {\n public fun <S> all(promise: Array<out Promise<S>>):
Promise<Array<out S>>\n\n public fun <S> race(promise: Array<out Promise<S>>): Promise<S>\n\n public fun reject(e: Throwable): Promise<Nothing>\n\n public fun <S> resolve(e: S): Promise<S>\n public
fun <S> resolve(e: Promise<S>): Promise<S>\n }\n}\n\n// It's workaround for KT-19672 since we can fix it
properly until KT-11265 isn't fixed.\n\ninline fun <T, S> Promise<Promise<T>>.then(\n noinline onFulfilled: ((T) -
> S)?\n): Promise<S> {\n return this.unsafeCast<Promise<T>>().then(onFulfilled)\n}\n\ninline fun <T, S>
Promise<Promise<T>>.then(\n noinline onFulfilled: ((T) -> S)?,\n noinline onRejected: ((Throwable) -> S)?\n):
Promise<S> {\n return this.unsafeCast<Promise<T>>().then(onFulfilled, onRejected)\n}\n\n"/*\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin.random\n\nimport kotlin.math.pow\n\ninternal actual fun defaultPlatformRandom(): Random =\nRandom(js\("Math.random() * Math.pow(2, 32) | 0").unsafeCast<Int>())\n\nprivate val INV_2_26: Double =
2.0.pow(-26)\n\nprivate val INV_2_53: Double = 2.0.pow(-53)\n\ninternal actual fun doubleFromParts(hi26: Int, low27:
Int): Double =\n hi26 * INV_2_26 + low27 * INV_2_53\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.reflect\n\nimport findAssociatedObject\n\n/**\n * The
experimental marker for associated objects API.\n * Any usage of a declaration annotated with
`@ExperimentalAssociatedObjects` must be accepted either by\n * annotating that usage with the [OptIn]
annotation, e.g. `@OptIn(ExperimentalAssociatedObjects::class)`,\n * or by using the compiler argument
`-opt-in=kotlin.reflect.ExperimentalAssociatedObjects`.\n * Also, `@RequiresOptIn(level =
RequiresOptIn.Level.ERROR)`\n * and `@Retention(value = AnnotationRetention.BINARY)`\n * public annotation class
ExperimentalAssociatedObjects\n\n/**\n * Makes the annotated annotation class an associated object key.\n * An
associated object key annotation should have single [KClass] parameter.\n * When applied to a class with
reference to an object declaration as an argument, it binds\n * the object to the class, making this binding
discoverable at runtime using [findAssociatedObject].\n\n */\n\n@ExperimentalAssociatedObjects\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.A
NNOTATION_CLASS)\n\npublic annotation class AssociatedObjectKey\n\n/**\n * If [T] is an
@[AssociatedObjectKey]-annotated annotation class and [this] class is annotated with @[T] (`S::class`),\n * returns
object `S`.\n * Otherwise returns `null`.\n\n */\n\n@ExperimentalAssociatedObjects\n\npublic inline fun <reified T :
Annotation> KClass<*>.findAssociatedObject(): Any? =\n this.findAssociatedObject(T::class)\n\n"/*\n * Copyright
2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport
getKClass\n\nimport kotlin.reflect.KClass\n\nimport kotlin.reflect.js.internal.KClassImpl\n\n/**\n * Represents the
constructor of a class. Instances of `JsClass` can be passed to JavaScript APIs that expect a constructor reference.\n
*/\n\nexternal interface JsClass<T : Any> {\n /**\n * Returns the unqualified name of the class represented by
this instance.\n */\n val name: String\n}\n\n/**\n * Obtains a constructor reference for the given `KClass`.\n\n
*/\n\nval <T : Any> KClass<T>.js: JsClass<T>\n get() = (this as KClassImpl<T>).jClass\n\n/**\n * Obtains a
`KClass` instance for the given constructor reference.\n\n */\n\nval <T : Any> JsClass<T>.kotlin: KClass<T>\n get()
= getKClass(this)\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

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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\n override val
qualifiedName: String?\n get() = TODO()\n\n override fun equals(other: Any?): Boolean {\n return other
is KClassImpl<*> && jClass == other.jClass\n }\n\n // TODO: use FQN\n override fun hashCode(): Int =
simpleName?.hashCode() ?: 0\n\n override fun toString(): String {\n // TODO: use FQN\n return \"class
$simpleName\"\n }\n}\n\ninternal class SimpleKClassImpl<T : Any>(jClass: JsClass<T>) :
KClassImpl<T>(jClass) {\n override val simpleName: String? =
jClass.asDynamic().`$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\ninternal class ErrorKClass : KClass<Nothing> {\n override val simpleName: String? get() =
error(\"Unknown simpleName for ErrorKClass\")\n\n override val qualifiedName: String? get() = error(\"Unknown
qualifiedName for ErrorKClass\")\n\n override fun isInstance(value: Any?): Boolean = error(\"Can's check
isInstance on ErrorKClass\")\n\n override fun equals(other: Any?): Boolean = other === this\n\n override fun
hashCode(): Int = 0\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\n\ninternal actual inline val
KClass<*>.qualifiedOrSimpleName: String? get() = simpleName, \"/*\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under
the module\n\n// TODO: Remove once JsReflectionAPICallChecker supports more reflection
types\n@file:Suppress(\"Unsupported\")\n\nimport kotlin.reflect.*\n\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
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\", \"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the

```

```

license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal class
KTypeImpl(\n override val classifier: KClassifier,\n override val arguments: List<KTypeProjection>,\n
override val isMarkedNullable: Boolean\n) : KType {\n override fun equals(other: Any?): Boolean =\n other
is KTypeImpl &&\n classifier == other.classifier && arguments == other.arguments &&
isMarkedNullable == other.isMarkedNullable\n\n override fun hashCode(): Int =\n (classifier.hashCode() * 31
+ arguments.hashCode()) * 31 + isMarkedNullable.hashCode()\n\n override fun toString(): String {\n val
kClass = (classifier as? KClass<*>)\n val classifierName = when {\n kClass == null ->
classifier.toString()\n kClass.simpleName != null -> kClass.simpleName\n else -> \"(non-denotable
type)\"\n }\n val args =\n if (arguments.isEmpty()) \"\"\n else arguments.joinToString(\" \", \"
\", \"<\", \">\")\n val nullable = if (isMarkedNullable) \"?\" else \"\"\n return classifierName + args +
nullable\n }\n}\n\ninternal object DynamicKType : KType {\n override val classifier: KClassifier? = null\n
override val arguments: List<KTypeProjection> = emptyList()\n override val isMarkedNullable: Boolean = false\n
override fun toString(): String = \"dynamic\"\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.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\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
@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 =
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 =

```



```

 public override fun toString(): String\n\n /**\n * The lastIndex is a read/write integer property of regular
 expressions that specifies the index at which to start the next match.\n */\n public var lastIndex: Int\n\n public
 val global: Boolean\n public val ignoreCase: Boolean\n public val multiline: Boolean\n}\n\n/**\n * Resets the
 regular expression so that subsequent [RegExp.test] and [RegExp.exec] calls will match starting with the beginning
 of the input string.\n */\npublic fun RegExp.reset() {\n lastIndex = 0\n}\n\n// TODO: Inherit from array or
 introduce asArray() extension\n\n/**\n * Represents the return value of [RegExp.exec].\n\n */\n@Suppress("NOT_DOCUMENTED")\npublic external interface RegExpMatch {\n public val index: Int\n
 public val input: String\n public val length: Int\n}\n\n/**\n * Returns the entire text matched by [RegExp.exec] if
 the [index] parameter is 0, or the text matched by the capturing parenthesis\n * at the given index.\n */\npublic inline
 operator fun RegExpMatch.get(index: Int): String? = asDynamic()[index]\n\n/**\n * Converts the result of
 [RegExp.exec] to an array where the first element contains the entire matched text and each subsequent\n * element
 is the text matched by each capturing parenthesis.\n */\npublic inline fun RegExpMatch.asArray(): Array<out
 String?> = unsafeCast<Array<out String?>>()\n\n"/**\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin
 Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
 found in the license/LICENSE.txt file.\n */\n\npackage kotlin.sequences\n\ninternal actual class
 ConstrainedOnceSequence<T> actual constructor(sequence: Sequence<T>) : Sequence<T> {\n private var
 sequenceRef: Sequence<T>? = sequence\n\n actual override fun iterator(): Iterator<T> {\n val sequence =
 sequenceRef ?: throw IllegalStateException("This sequence can be consumed only once.")\n sequenceRef =
 null\n return sequence.iterator()\n }\n}\n\n"/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
 Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
 found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n@SinceKotlin("1.5")\npublic actual enum
 class CharCategory(internal val value: Int, public actual val code: String) {\n /**\n * General category
 \"Cn\" in the Unicode specification.\n */\n UNASSIGNED(0, \"Cn\"),\n\n /**\n * General category
 \"Lu\" in the Unicode specification.\n */\n UPPERCASE_LETTER(1, \"Lu\"),\n\n /**\n * General category
 \"Ll\" in the Unicode specification.\n */\n LOWERCASE_LETTER(2, \"Ll\"),\n\n /**\n * General category
 \"Lt\" in the Unicode specification.\n */\n TITLECASE_LETTER(3, \"Lt\"),\n\n /**\n * General category
 \"Lm\" in the Unicode specification.\n */\n MODIFIER_LETTER(4, \"Lm\"),\n\n /**\n * General category
 \"Lo\" in the Unicode specification.\n */\n OTHER_LETTER(5, \"Lo\"),\n\n /**\n * General category
 \"Mn\" in the Unicode specification.\n */\n NON_SPACING_MARK(6, \"Mn\"),\n\n /**\n * General category
 \"Me\" in the Unicode specification.\n */\n ENCLOSING_MARK(7, \"Me\"),\n\n /**\n * General category
 \"Mc\" in the Unicode specification.\n */\n COMBINING_SPACING_MARK(8, \"Mc\"),\n\n /**\n * General
 category \"Nd\" in the Unicode specification.\n */\n DECIMAL_DIGIT_NUMBER(9, \"Nd\"),\n\n /**\n *
 General category \"Nl\" in the Unicode specification.\n */\n LETTER_NUMBER(10, \"Nl\"),\n\n /**\n *
 General category \"No\" in the Unicode specification.\n */\n OTHER_NUMBER(11, \"No\"),\n\n /**\n *
 General category \"Zs\" in the Unicode specification.\n */\n SPACE_SEPARATOR(12, \"Zs\"),\n\n /**\n *
 General category \"Zl\" in the Unicode specification.\n */\n LINE_SEPARATOR(13, \"Zl\"),\n\n /**\n *
 General category \"Zp\" in the Unicode specification.\n */\n PARAGRAPH_SEPARATOR(14, \"Zp\"),\n\n /**\n *
 General category \"Cc\" in the Unicode specification.\n */\n CONTROL(15, \"Cc\"),\n\n /**\n *
 General category \"Cf\" in the Unicode specification.\n */\n FORMAT(16, \"Cf\"),\n\n /**\n * General
 category \"Co\" in the Unicode specification.\n */\n PRIVATE_USE(18, \"Co\"),\n\n /**\n * General
 category \"Cs\" in the Unicode specification.\n */\n SURROGATE(19, \"Cs\"),\n\n /**\n * General category
 \"Pd\" in the Unicode specification.\n */\n DASH_PUNCTUATION(20, \"Pd\"),\n\n /**\n * General
 category \"Ps\" in the Unicode specification.\n */\n START_PUNCTUATION(21, \"Ps\"),\n\n /**\n *
 General category \"Pe\" in the Unicode specification.\n */\n END_PUNCTUATION(22, \"Pe\"),\n\n /**\n *
 General category \"Pc\" in the Unicode specification.\n */\n CONNECTOR_PUNCTUATION(23, \"Pc\"),\n\n /**\n *
 General category \"Po\" in the Unicode specification.\n */\n OTHER_PUNCTUATION(24, \"Po\"),\n\n /**\n *
 General category \"Sm\" in the Unicode specification.\n */\n MATH_SYMBOL(25, \"Sm\"),\n\n /**\n *
 General category \"Sc\" in the Unicode specification.\n */\n\n}

```

```

CURRENCY_SYMBOL(26, \"Sc\"),\n\n /**\n * General category \"Sk\" in the Unicode specification.\n */\n
MODIFIER_SYMBOL(27, \"Sk\"),\n\n /**\n * General category \"So\" in the Unicode specification.\n */\n
OTHER_SYMBOL(28, \"So\"),\n\n /**\n * General category \"Pi\" in the Unicode specification.\n */\n
INITIAL_QUOTE_PUNCTUATION(29, \"Pi\"),\n\n /**\n * General category \"Pf\" in the Unicode
specification.\n */\n
FINAL_QUOTE_PUNCTUATION(30, \"Pf\");\n\n /**\n * Returns `true` if [char]
character belongs to this category.\n */\n
public actual operator fun contains(char: Char): Boolean =
char.getCategoryValue() == this.value\n\n companion object {\n
internal fun valueOf(category: Int):
CharCategory =\n
when (category) {\n
in 0..16 -> values()[category]\n
in 18..30 ->
values()[category - 1]\n
else -> throw IllegalArgumentException(\"Category #\$category is not defined.\")\n
}\n
}\n\n\", \"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
*/\n
* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.text\n\n/**\n * The exception thrown when a character encoding or decoding error occurs.\n
*/\n\n@SinceKotlin(\"1.4\")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic actual open class
CharacterCodingException(message: String?) : Exception(message) {\n
actual constructor() : this(null)\n}\n\n\", \"/*\n
* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n
* Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage
kotlin.text\n\n/**\n * A mutable sequence of characters.\n
*/\n
* String builder can be used to efficiently perform
multiple string manipulation operations.\n
*/\n\npublic actual class StringBuilder actual constructor(content: String) :
Appendable, CharSequence {\n
/**\n * Constructs an empty string builder with the specified initial [capacity].\n
*/\n
* In Kotlin/JS implementation of StringBuilder the initial capacity has no effect on the further performance
of operations.\n
*/\n
actual constructor(capacity: Int) : this() {\n
}\n\n /**\n * Constructs a string builder that
contains the same characters as the specified [content] char sequence.\n
*/\n
actual constructor(content:
CharSequence) : this(content.toString()) {\n
}\n\n /**\n * Constructs an empty string builder.\n
*/\n
actual constructor() :
this(\"\")\n\n private var string: String = if (content !== undefined) content else \"\"\n\n actual override val
length: Int\n
get() = string.asDynamic().length\n\n actual override fun get(index: Int): Char =\n
string.getOrElse(index) { throw IndexOutOfBoundsException(\"index: \$index, length: \$length\") }\n\n actual
override fun subSequence(startIndex: Int, endIndex: Int): CharSequence = string.substring(startIndex, endIndex)\n\n
actual override fun append(value: Char): StringBuilder {\n
string += value\n
return this\n
}\n\n actual
override fun append(value: CharSequence?): StringBuilder {\n
string += value.toString()\n
return this\n
}\n\n actual override fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder =\n
this.appendRange(value ?: \"null\", startIndex, endIndex)\n\n /**\n * Reverses the contents of this string builder
and returns this instance.\n
*/\n
* Surrogate pairs included in this string builder are treated as single
characters.\n
* Therefore, the order of the high-low surrogates is never reversed.\n
*/\n
* Note that the reverse
operation may produce new surrogate pairs that were unpaired low-surrogates and high-surrogates before the
operation.\n
* For example, reversing \"\uDC00\uD800\" produces \"\uD800\uDC00\" which is a valid
surrogate pair.\n
*/\n
actual fun reverse(): StringBuilder {\n
var reversed = \"\"\n
var index =
string.length - 1\n
while (index >= 0) {\n
val low = string[index--]\n
if (low.isLowSurrogate() &&
index >= 0) {\n
val high = string[index--]\n
if (high.isHighSurrogate()) {\n
reversed =
reversed + high + low\n
} else {\n
reversed = reversed + low + high\n
}\n
}\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\")\nactual fun append(value: Boolean): StringBuilder {\n
string += value\n
return this\n
}\n\n /**\n
* Appends characters in the specified character array [value] to

```

```

this string builder and returns this instance.\n * \n * Characters are appended in order, starting at the index 0.\n
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun append(value:
CharArray): StringBuilder {\n string += value.concatToString()\n return this\n }\n\n
@Deprecated("Provided for binary compatibility.", level = DeprecationLevel.HIDDEN)\n fun append(value:
String): StringBuilder = append(value)\n\n /** \n * Appends the specified string [value] to this string builder and
returns this instance.\n * \n * If [value] is `null`, then the four characters `"\null"` are appended.\n * \n
*\n @SinceKotlin("1.3")\n actual fun append(value: String?): StringBuilder {\n this.string += value ?: "\null"\n
return this\n }\n\n /** \n * Returns the current capacity of this string builder.\n * \n * The capacity is the
maximum length this string builder can have before an allocation occurs.\n * \n * In Kotlin/JS implementation
of StringBuilder the value returned from this method may not indicate the actual size of the backing storage.\n
*\n @SinceKotlin("1.3")\n// @ExperimentalStdlibApi\n @Deprecated("Obtaining StringBuilder capacity is
not supported in JS and common code.", level = DeprecationLevel.ERROR)\n actual fun capacity(): Int =
length\n\n /** \n * Ensures that the capacity of this string builder is at least equal to the specified
[minimumCapacity].\n * \n * If the current capacity is less than the [minimumCapacity], a new backing storage
is allocated with greater capacity.\n * 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
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun
ensureCapacity(minimumCapacity: Int) {\n }\n\n /** \n * Returns the index within this string builder of the
first occurrence of the specified [string].\n * \n * Returns `-1` if the specified [string] does not occur in this
string builder.\n * \n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual
fun indexOf(string: String): Int = this.string.asDynamic().indexOf(string)\n\n /** \n * Returns the index within
this string builder of the first occurrence of the specified [string],\n * starting at the specified [startIndex].\n *
*\n * Returns `-1` if the specified [string] does not occur in this string builder starting at the specified [startIndex].\n
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun indexOf(string:
String, startIndex: Int): Int = this.string.asDynamic().indexOf(string, startIndex)\n\n /** \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("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\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("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun
lastIndexOf(string: String, startIndex: Int): Int {\n if (string.isEmpty() && startIndex < 0) return -1\n return
this.string.asDynamic().lastIndexOf(string, startIndex)\n }\n\n /** \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
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value:
Boolean): StringBuilder {\n AbstractList.checkPositionIndex(index, length)\n\n string = string.substring(0,
index) + value + string.substring(index)\n\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
*\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun insert(index: Int, value:
Char): StringBuilder {\n AbstractList.checkPositionIndex(index, length)\n\n string = string.substring(0,
index) + value + string.substring(index)\n\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.

- \* The inserted characters go in same order as in the [value] character array, starting at [index].
- \* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
- \* @SinceKotlin("1.4")

```
@WasExperimental(ExperimentalStdlibApi::class)
actual fun insert(index: Int, value: CharArray): String Builder {
 AbstractList.checkPositionIndex(index, length)
 string = string.substring(0, index) + value.concatToString() + string.substring(index)
 return this
}
```

Inserts characters in the specified character sequence [value] into this string builder at the specified [index] and returns this instance.

- \* The inserted characters go in the same order as in the [value] character sequence, starting at [index].
- \* @param index the position in this string builder to insert at.
- \* @param value the character sequence from which characters are inserted. If [value] is `null`, then the four characters `"\null"` are inserted.
- \* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
- \* @SinceKotlin("1.4")

```
@WasExperimental(ExperimentalStdlibApi::class)
actual fun insert(index: Int, value: CharSequence?): String Builder {
 AbstractList.checkPositionIndex(index, length)
 string = string.substring(0, index) + value.toString() + string.substring(index)
 return this
}
```

Inserts the string representation of the specified object [value] into this string builder at the specified [index] and returns this instance.

- \* The overall effect is exactly as if the [value] were converted to a string by the `value.toString()` method, and then that string was inserted into this string builder at the specified [index].
- \* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
- \* @SinceKotlin("1.4")

```
@WasExperimental(ExperimentalStdlibApi::class)
actual fun insert(index: Int, value: Any?): String Builder {
 AbstractList.checkPositionIndex(index, length)
 string = string.substring(0, index) + value.toString() + string.substring(index)
 return this
}
```

@Deprecated("Provided for binary compatibility.", level = DeprecationLevel.HIDDEN)

```
fun insert(index: Int, value: String): String Builder = insert(index, value)
```

Inserts the string [value] into this string builder at the specified [index] and returns this instance.

- \* If [value] is `null`, then the four characters `"\null"` are inserted.
- \* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
- \* @SinceKotlin("1.4")

```
@WasExperimental(ExperimentalStdlibApi::class)
actual fun insert(index: Int, value: String?): String Builder {
 AbstractList.checkPositionIndex(index, length)
 val toInsert = value ?: "\null"
 this.string = this.string.substring(0, index) + toInsert + this.string.substring(index)
 return this
}
```

Sets the length of this string builder to the specified [newLength].

- \* If the [newLength] is less than the current length, it is changed to the specified [newLength].
- \* Otherwise, null characters `"\u0000"` are appended to this string builder until its length is less than the [newLength].
- \* Note that in Kotlin/JS [set] operator function has non-constant execution time complexity.
- \* Therefore, increasing length of this string builder and then updating each character by index may slow down your program.
- \* @throws IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less than zero.
- \* @SinceKotlin("1.4")

```
@WasExperimental(ExperimentalStdlibApi::class)
actual fun setLength(newLength: Int) {
 if (newLength < 0) {
 throw IllegalArgumentException("Negative new length: $newLength.")
 }
 if (newLength <= length) {
 string = string.substring(0, newLength)
 }
 else {
 for (i in length until newLength) {
 string += "\u0000"
 }
 }
}
```

Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [length] (exclusive).

- \* @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of this string builder.
- \* @SinceKotlin("1.4")

```
@WasExperimental(ExperimentalStdlibApi::class)
actual fun substring(startIndex: Int): String {
 AbstractList.checkPositionIndex(startIndex, length)
 return string.substring(startIndex)
}
```

Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [endIndex] (exclusive).

- \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.
- \* @SinceKotlin("1.4")

```
@WasExperimental(ExperimentalStdlibApi::class)
actual fun substring(startIndex: Int, endIndex: Int): String {
 AbstractList.checkPositionIndex(startIndex, length)
 AbstractList.checkPositionIndex(endIndex, length)
 return string.substring(startIndex, endIndex)
}
```

```

Int, endIndex: Int): String {\n AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n\n return\n 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 *\n * Calling this method may, but is not required to, affect the\n * value of the [capacity] property.\n *\n * In Kotlin/JS implementation of StringBuilder the size of the backing\n * storage is always equal to the length of the string builder.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n actual fun trimToSize() {\n }\n\n override fun toString():\n 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():\n StringBuilder {\n string = ""\n return this\n }\n\n /**\n * Sets the character at the specified [index]\n * to the specified [value].\n *\n * @throws IndexOutOfBoundsException if [index] is out of bounds of this string\n * builder.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public\n operator fun set(index: Int, value: Char) {\n AbstractList.checkElementIndex(index, length)\n\n string =\n string.substring(0, index) + value + string.substring(index + 1)\n }\n\n /**\n * Replaces characters in the\n * 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)\n * of the range to replace.\n * @param value the string to replace with.\n * @throws\n * IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length\n * of this string builder, or `startIndex > endIndex`.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun setRange(startIndex: Int, endIndex: Int, value:\n String): StringBuilder {\n checkReplaceRange(startIndex, endIndex, length)\n\n this.string =\n this.string.substring(0, startIndex) + value + this.string.substring(endIndex)\n return this\n }\n\n private fun\n checkReplaceRange(startIndex: Int, endIndex: Int, length: Int) {\n if (startIndex < 0 || startIndex > length) {\n throw IndexOutOfBoundsException("startIndex: $startIndex, length: $length")\n }\n if (startIndex >\n endIndex) {\n throw IllegalArgumentException("startIndex($startIndex) > endIndex($endIndex)")\n }\n }\n\n /**\n * Removes the character at the specified [index] from this string builder and returns this instance.\n *\n * If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove\n * the entire supplementary character.\n *\n * @param index the index of `Char` to remove.\n * @throws\n * IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun deleteAt(index: Int): StringBuilder {\n AbstractList.checkElementIndex(index, length)\n\n string = string.substring(0, index) + string.substring(index +\n 1)\n return this\n }\n\n /**\n * Removes characters in the specified range from this string builder and\n * 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 * @throws IndexOutOfBoundsException\n * or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex >\n * endIndex`.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun\n deleteRange(startIndex: Int, endIndex: Int): StringBuilder {\n checkReplaceRange(startIndex, endIndex,\n length)\n\n string = string.substring(0, startIndex) + string.substring(endIndex)\n return this\n }\n\n /**\n * Copies characters from this string builder into the [destination] character array.\n *\n * @param\n * destination the array to copy to.\n * @param destinationOffset the position in the array to copy to, 0 by default.\n * @param\n * startIndex the beginning (inclusive) of the range to copy, 0 by default.\n * @param\n * endIndex the end (exclusive) of the range to copy, length of this string builder by default.\n * @throws\n * IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this\n * string builder indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the\n * subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index\n * is out of the [destination] array indices range.\n */\n @SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n public fun toCharArray(destination: CharArray,\n destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) {\n

```



Sets the character at the specified [index] to the specified [value].\n \*\n \* @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline operator fun
```

StringBuilder.set(index: Int, value: Char) = this.set(index, value)\n\n\*\*\n \* Replaces characters in the specified range of this string builder with characters in the specified string [value] and returns this instance.\n \*\n \* @param startIndex the beginning (inclusive) of the range to replace.\n \* @param endIndex the end (exclusive) of the range to replace.\n \* @param value the string to replace with.\n \*\n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`.\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
```

StringBuilder.setRange(startIndex: Int, endIndex: Int, value: String): StringBuilder =\n this.setRange(startIndex, endIndex, value)\n\n\*\*\n \* Removes the character at the specified [index] from this string builder and returns this instance.\n \*\n \* If the `Char` at the specified [index] is part of a supplementary code point, this method does not remove the entire supplementary character.\n \*\n \* @param index the index of `Char` to remove.\n \*\n \* @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
```

StringBuilder.deleteAt(index: Int): StringBuilder = this.deleteAt(index)\n\n\*\*\n \* Removes characters in the specified range from this string builder and returns this instance.\n \*\n \* @param startIndex the beginning (inclusive) of the range to remove.\n \* @param endIndex the end (exclusive) of the range to remove.\n \*\n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
```

StringBuilder.deleteRange(startIndex: Int, endIndex: Int): StringBuilder = this.deleteRange(startIndex, endIndex)\n\n\*\*\n \* Copies characters from this string builder into the [destination] character array.\n \*\n \* @param destination the array to copy to.\n \* @param destinationOffset the position in the array to copy to, 0 by default.\n \* @param startIndex the beginning (inclusive) of the range to copy, 0 by default.\n \* @param endIndex the end (exclusive) of the range to copy, length of this string builder by default.\n \*\n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.\n \* @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n \* or when that index is out of the [destination] array indices range.\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE",
```

```
"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\npublic actual inline fun
```

StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = this.length) =\n this.toCharArray(destination, destinationOffset, startIndex, endIndex)\n\n\*\*\n \* Appends characters in a subarray of the specified character array [value] to this string builder and returns this instance.\n \*\n \* Characters are appended in order, starting at specified [startIndex].\n \*\n \* @param value the array from which characters are appended.\n \* @param startIndex the beginning (inclusive) of the subarray to append.\n \* @param endIndex the end (exclusive) of the subarray to append.\n \*\n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the [value] array indices or when `startIndex > endIndex`.\n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\npublic actual inline fun
```

```

StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder =\n
this.appendRange(value, startIndex, endIndex)\n\n/**\n * Appends a subsequence of the specified character
sequence [value] to this string builder and returns this instance.\n *\n * @param value the character sequence from
which a subsequence is appended.\n *\n * @param startIndex the beginning (inclusive) of the subsequence to append.\n
*\n * @param endIndex the end (exclusive) of the subsequence to append.\n *\n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] character sequence indices or when `startIndex > endIndex`.\n
*\n * @SinceKotlin("1.4")\n * @WasExperimental(ExperimentalStdlibApi::class)\n * @Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\n */\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 *\n * @param value the array from which characters are inserted.\n *\n * @param startIndex the beginning
(inclusive) of the subarray to insert.\n *\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("1.4")\n * @WasExperimental(ExperimentalStdlibApi::class)\n * @Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\n */\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 *\n * @param value the character sequence from which a
subsequence is inserted.\n *\n * @param startIndex the beginning (inclusive) of the subsequence to insert.\n *\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
greater than the length of this string builder.\n
*\n * @SinceKotlin("1.4")\n * @WasExperimental(ExperimentalStdlibApi::class)\n * @Suppress("EXTENSION_SHA
DOWED_BY_MEMBER", "NOTHING_TO_INLINE")\n */\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\n/**\n * Returns `true` if the content of this
string is equal to the word `true`, ignoring case, and `false` otherwise.\n *\n * @Deprecated("Use Kotlin compiler
1.4 to avoid deprecation warning.")\n * @DeprecatedSinceKotlin(hiddenSince =
"1.4")\n * @kotlin.internal.InlineOnly\n */\n public actual inline fun String.toBoolean(): Boolean =
this.toBoolean()\n\n/**\n * Returns `true` if this string is not `null` and its content is equal to the word `true`,
ignoring case, and `false` otherwise.\n *\n * There are also strict versions of the function available on non-nullable
String, [toBooleanStrict] and [toBooleanStrictOrNull].\n *\n * @SinceKotlin("1.4")\n */\n public actual fun
String?.toBoolean(): Boolean = this != null && this.lowercase() == "true"\n\n/**\n * Parses the string as a signed
[Byte] number and returns the result.\n *\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n *\n */\n public actual fun String.toByte(): Byte = toByteOrNull() ?:
numberFormatError(this)\n\n/**\n * Parses the string as a signed [Byte] number and returns the result.\n *\n * @throws
NumberFormatException 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 */\n public actual fun

```

```

String.toByteArray(radix: Int): Byte = toByteOrNull(radix) ?: numberFormatException(this)\n\n/**\n * Parses the string as a
[Short] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n */\npublic actual fun String.toShort(): Short = toShortOrNull()\n\nnumberFormatException(this)\n\n/**\n * Parses the string as a [Short] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\npublic actual fun
String.toShort(radix: Int): Short = toShortOrNull(radix) ?: numberFormatException(this)\n\n/**\n * Parses the string as
an [Int] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n */\npublic actual fun String.toInt(): Int = toIntOrNull()\n\nnumberFormatException(this)\n\n/**\n * Parses the string as an [Int] number and returns the result.\n * @throws
NumberFormatException if the string is not a valid representation of a number.\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\npublic actual fun
String.toInt(radix: Int): Int = toIntOrNull(radix) ?: numberFormatException(this)\n\n/**\n * Parses the string as a [Long]
number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a
number.\n */\npublic actual fun String.toLong(): Long = toLongOrNull()\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) ?:
numberFormatException(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 numberFormatException(this)\n}\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/**\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 * @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 * @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 Short.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@SinceKotlin("1.2")\npublic actual fun Int.toString(radix: Int): String =
asDynamic().toString(checkRadix(radix))\n\nprivate fun String.isNaN(): Boolean = when (this.lowercase()) {\n
"nan", "+nan", "-nan" -> true\n else -> false\n}\n\n/**\n * Checks whether the given [radix] is valid radix for
string to number and number to string conversion.\n */\n@PublishedApi\ninternal actual fun checkRadix(radix: Int):
Int {\n if (radix !in 2..36) {\n throw IllegalArgumentException("\nradix $radix was not in valid range 2..36")\n }\n return radix\n}\n\ninternal actual fun digitOf(char: Char, radix: Int): Int = when {\n char >= '0' && char <=
'9' -> char - '0'\n char >= 'A' && char <= 'Z' -> char - 'A' + 10\n char >= 'a' && char <= 'z' -> char - 'a' + 10\n char < "\u0080" -> -1\n char >= "\uFF21" && char <= "\uFF3A" -> char - "\uFF21" + 10 // full-width latin capital
letter\n char >= "\uFF41" && char <= "\uFF5A" -> char - "\uFF41" + 10 // full-width latin small letter\n else ->
char.digitToIntImpl()\n}.let { if (it >= radix) -1 else it }\n}"/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be

```

found in the license/LICENSE.txt file.

```

package kotlin.text
import kotlin.js.RegExp

/** Provides enumeration values to use to set regular expression options. */
public actual enum class RegexOptions(val value: String) {
 /** Enables case-insensitive matching. */
 IGNORE_CASE("i"),
 /** Enables multiline mode. */
 MULTILINE("m")
}

private fun Iterable<RegexOption>.toFlags(prepend: String): String = joinToString("\n", prefix = prepend) { it.value }

/** Represents the results from a single capturing group within a [MatchResult] of [Regex]. */
@param value The value of captured group.
public actual data class MatchGroup(actual val value: String)

/** Represents a compiled regular expression. */
Provides functions to match strings in text with a pattern, replace the found occurrences and split text around matches.
For pattern syntax reference see [MDN RegExp](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/RegExp#Special_characters_meaning_in_regular_expressions) and
http://www.w3schools.com/jsref/jsref_obj_regexp.asp.

Note that `Regex` objects under the hood are constructed with [the `u` flag](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/RegExp/unicode) that enables Unicode-related features in regular expressions. This also makes the pattern syntax more strict, for example, prohibiting unnecessary escape sequences.

@constructor Creates a regular expression from the specified [pattern] string and the specified set of [options].
public actual class Regex actual constructor(pattern: String, options: Set<RegexOption>) {
 /** Creates a regular expression from the specified [pattern] string and the specified single [option]. */
 public actual constructor(pattern: String, option: RegexOptions) : this(pattern, setOf(option))
 /** Creates a regular expression from the specified [pattern] string and the default options. */
 public actual constructor(pattern: String) : this(pattern, emptySet())
 /** The pattern string of this regular expression. */
 public actual val pattern: String = pattern
 /** The set of options that were used to create this regular expression. */
 public actual val options: Set<RegexOption> = options.toSet()
 private val nativePattern: RegExp = RegExp(pattern, options.toFlags("gu"))
 private var nativeStickyPattern: RegExp? = null
 private fun initStickyPattern(): RegExp = nativeStickyPattern ?: RegExp(pattern, options.toFlags("yu")).also { nativeStickyPattern = it }
 private var nativeMatchesEntirePattern: RegExp? = null
 private fun initMatchesEntirePattern(): RegExp = nativeMatchesEntirePattern?.run {
 if (pattern.startsWith('^') && pattern.endsWith('$'))
 nativePattern
 else
 return RegExp("^${pattern.trimStart('^').trimEnd('$')}\$", options.toFlags("gu"))
 }.also { nativeMatchesEntirePattern = it }
 /** Indicates whether the regular expression matches the entire [input]. */
 public actual infix fun matches(input: CharSequence): Boolean {
 nativePattern.reset()
 val match = nativePattern.exec(input.toString())
 return match != null && match.index == 0 && nativePattern.lastIndex == input.length
 }
 /** Indicates whether the regular expression can find at least one match in the specified [input]. */
 public actual fun containsMatchIn(input: CharSequence): Boolean {
 nativePattern.reset()
 return nativePattern.test(input.toString())
 }
}

@SinceKotlin("1.5")
@ExperimentalStdlibApi
public actual fun matchesAt(input: CharSequence, index: Int): Boolean {
 if (index < 0 || index > input.length)
 throw IndexOutOfBoundsException("index out of bounds: $index, input length: ${input.length}")
 val pattern = initStickyPattern()
 pattern.lastIndex = index
 return pattern.test(input.toString())
}

/** Returns the first match of a regular expression in the [input], beginning at the specified [startIndex]. */
@param startIndex An index to start search with, by default 0. Must be not less than zero and not greater than `input.length()`.
@return An instance of [MatchResult] if match was found or `null` otherwise.
@throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the length of the [input] char sequence.
@sample
samples.text.Regexps.find

@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")
public actual fun find(input: CharSequence, startIndex: Int = 0): MatchResult? {
 if (startIndex < 0 || startIndex > input.length) {

```

```

throw IndexOutOfBoundsException("Start index out of bounds: $startIndex, input length: ${input.length}")\n
}\n return nativePattern.findNext(input.toString(), startIndex, nativePattern)\n }\n\n /**\n * Returns a
sequence of all occurrences of a regular expression within the [input] string, beginning at the specified
[startIndex].\n *\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or greater than the
length of the [input] char sequence.\n *\n * @sample samples.text.Regexp.findAll\n */\n
@Suppress("ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS")\n public actual fun findAll(input:
CharSequence, startIndex: Int = 0): Sequence<MatchResult> {\n if (startIndex < 0 || startIndex > input.length)\n {\n throw IndexOutOfBoundsException("Start index out of bounds: $startIndex, input length:
${input.length}")\n }\n return generateSequence({ find(input, startIndex) }, { match -> match.next() })\n
}\n\n /**\n * Attempts to match the entire [input] CharSequence against the pattern.\n *\n * @return An
instance of [MatchResult] if the entire input matches or `null` otherwise.\n */\n public actual fun
matchEntire(input: CharSequence): MatchResult? =\n initMatchesEntirePattern().findNext(input.toString(), 0,
nativePattern)\n\n @SinceKotlin("1.5")\n @ExperimentalStdlibApi\n public actual fun matchAt(input:
CharSequence, index: Int): MatchResult? {\n if (index < 0 || index > input.length) {\n throw
IndexOutOfBoundsException("index out of bounds: $index, input length: ${input.length}")\n }\n return
initStickyPattern().findNext(input.toString(), index, nativePattern)\n }\n\n\n /**\n * Replaces all occurrences
of this regular expression in the specified [input] string with specified [replacement] expression.\n *\n * The
replacement string may contain references to the captured groups during a match. Occurrences of `index`\n * in
the replacement string will be substituted with the subsequences corresponding to the captured groups with the
specified index.\n * The first digit after '$' is always treated as part of group reference. Subsequent digits are
incorporated\n * into `index` only if they would form a valid group reference. Only the digits '0'..'9' are considered
as potential components\n * of the group reference. Note that indexes of captured groups start from 1, and the
group with index 0 is the whole match.\n *\n * Backslash character '\\' can be used to include the succeeding
character as a literal in the replacement string, e.g. '\\$' or '\\\\\\'.\n * [Regex.escapeReplacement] can be used if
[replacement] have to be treated as a literal string.\n *\n * Note that referring named capturing groups by name
is currently not supported in Kotlin/JS.\n * However, you can still refer them by index.\n *\n * @param input
the char sequence to find matches of this regular expression in\n * @param replacement the expression to replace
found matches with\n * @return the result of replacing each occurrence of this regular expression in [input] with
the result of evaluating the [replacement] expression\n * @throws RuntimeException if [replacement] expression
is malformed, or capturing group with specified `name` or `index` does not exist\n */\n public actual fun
replace(input: CharSequence, replacement: String): String {\n if (!replacement.contains("\\\\") &&
!replacement.contains('$')) {\n return input.toString().nativeReplace(nativePattern, replacement)\n }\n
return replace(input) { substituteGroupRefs(it, replacement) }\n }\n\n /**\n * Replaces all occurrences of this
regular expression in the specified [input] string with the result of\n * the given function [transform] that takes
[MatchResult] and returns a string to be used as a\n * replacement for that match.\n */\n public actual fun
replace(input: CharSequence, transform: (MatchResult) -> CharSequence): String {\n var match = find(input)\n
 if (match == null) return input.toString()\n var lastStart = 0\n val length = input.length\n val sb =
StringBuilder(length)\n do {\n val foundMatch = match!!\n sb.append(input, lastStart,
foundMatch.range.start)\n sb.append(transform(foundMatch))\n lastStart =
foundMatch.range.endInclusive + 1\n match = foundMatch.next()\n } while (lastStart < length && match
!= null)\n if (lastStart < length) {\n sb.append(input, lastStart, length)\n }\n return
sb.toString()\n }\n\n /**\n * Replaces the first occurrence of this regular expression in the specified [input]
string with specified [replacement] expression.\n *\n * The replacement string may contain references to the
captured groups during a match. Occurrences of `index`\n * in the replacement string will be substituted with the
subsequences corresponding to the captured groups with the specified index.\n * The first digit after '$' is always
treated as part of group reference. Subsequent digits are incorporated\n * into `index` only if they would form a
valid group reference. Only the digits '0'..'9' are considered as potential components\n * of the group reference.
Note that indexes of captured groups start from 1, and the group with index 0 is the whole match.\n *\n *

```

Backslash character `\` can be used to include the succeeding character as a literal in the replacement string, e.g., `\\$` or `\\\\``. `\n` \* [Regex.escapeReplacement] can be used if [replacement] have to be treated as a literal string. `\n` \* `\n` \* Note that referring named capturing groups by name is not supported currently in Kotlin/JS. `\n` \* However, you can still refer them by index. `\n` \* `\n` \* @param input the char sequence to find a match of this regular expression in `\n` \* @param replacement the expression to replace the found match with `\n` \* @return the result of replacing the first occurrence of this regular expression in [input] with the result of evaluating the [replacement] expression `\n` \* @throws RuntimeException if [replacement] expression is malformed, or capturing group with specified `name` or `index` does not exist `\n` \* `\n` public actual fun replaceFirst(input: CharSequence, replacement: String): String { `\n` if (!replacement.contains("\\\\") && !replacement.contains('\$')) { `\n` val nonGlobalOptions = options.toFlags("\\u") `\n` return input.toString().nativeReplace(RegExp(pattern, nonGlobalOptions), replacement) `\n` } `\n` val match = find(input) ?: return input.toString() `\n` return buildString { `\n` append(input.substring(0, match.range.first)) `\n` append(substituteGroupRefs(match, replacement)) `\n` append(input.substring(match.range.last + 1, input.length)) `\n` } `\n` } `\n` /\*\* `\n` \* Splits the [input] CharSequence to a list of strings around matches of this regular expression. `\n` \* `\n` \* @param limit Non-negative value specifying the maximum number of substrings the string can be split to. `\n` \* Zero by default means no limit is set. `\n` \* `\n` \* @Suppress("ACTUAL\_FUNCTION\_WITH\_DEFAULT\_ARGUMENTS") `\n` public actual fun split(input: CharSequence, limit: Int = 0): List<String> { `\n` requireNonNegativeLimit(limit) `\n` val matches = findAll(input).let { if (limit == 0) it else it.take(limit - 1) } `\n` val result = mutableListOf<String>() `\n` var lastStart = 0 `\n` for (match in matches) { `\n` result.add(input.subSequence(lastStart, match.range.start).toString()) `\n` lastStart = match.range.endInclusive + 1 `\n` } `\n` result.add(input.subSequence(lastStart, input.length).toString()) `\n` return result `\n` } `\n` /\*\* `\n` \* Splits the [input] CharSequence to a sequence of strings around matches of this regular expression. `\n` \* `\n` \* @param limit Non-negative value specifying the maximum number of substrings the string can be split to. `\n` \* Zero by default means no limit is set. `\n` \* @sample samples.text.Regexps.splitToSequence `\n` \* `\n` \* @SinceKotlin("1.6") `\n` @WasExperimental(ExperimentalStdlibApi::class) `\n` @Suppress("ACTUAL\_FUNCTION\_WITH\_DEFAULT\_ARGUMENTS") `\n` public actual fun splitToSequence(input: CharSequence, limit: Int = 0): Sequence<String> { `\n` requireNonNegativeLimit(limit) `\n` return sequence { `\n` var match = find(input) `\n` if (match == null || limit == 1) { `\n` yield(input.toString()) `\n` return@sequence `\n` } `\n` var nextStart = 0 `\n` var splitCount = 0 `\n` do { `\n` val foundMatch = match!! `\n` yield(input.substring(nextStart, foundMatch.range.first)) `\n` nextStart = foundMatch.range.endInclusive + 1 `\n` match = foundMatch.next() `\n` } while (++splitCount != limit - 1 && match != null) `\n` yield(input.substring(nextStart, input.length)) `\n` } `\n` } `\n` /\*\* `\n` \* Returns the string representation of this regular expression, namely the [pattern] of this regular expression. `\n` \* `\n` \* Note that another regular expression constructed from the same pattern string may have different [options] `\n` \* and may match strings differently. `\n` \* `\n` public override fun toString(): String = nativePattern.toString() `\n` actual companion object { `\n` /\*\* `\n` \* Returns a regular expression that matches the specified [literal] string literally. `\n` \* No characters of that string will have special meaning when searching for an occurrence of the regular expression. `\n` \* `\n` \* `\n` public actual fun fromLiteral(literal: String): Regex = Regex(escape(literal)) `\n` /\*\* `\n` \* Returns a regular expression pattern string that matches the specified [literal] string literally. `\n` \* No characters of that string will have special meaning when searching for an occurrence of the regular expression. `\n` \* `\n` public actual fun escape(literal: String): String = literal.nativeReplace(patternEscape, "\\|\\\$&\\") `\n` /\*\* `\n` \* Returns a literal replacement expression for the specified [literal] string. `\n` \* No characters of that string will have special meaning when it is used as a replacement string in [Regex.replace] function. `\n` \* `\n` public actual fun escapeReplacement(literal: String): String = literal.nativeReplace(replacementEscape, "\\|\\\$&\\") `\n` private val patternEscape = RegExp("\\\\|\\\\\\\\|^\$\*+?.()|[\\]{}\\|'\\\\", \\g") `\n` private val replacementEscape = RegExp("\\\\|\\\\\\\\|\\\$|\\\\\\\\", \\g") `\n` internal fun nativeEscapeReplacement(literal: String): String = literal.nativeReplace(nativeReplacementEscape, "\\\$\\\$\\\$") `\n` private val nativeReplacementEscape =



```

fun append(value: CharSequence?, startIndex: Int, endIndex: Int): StringBuilder\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 `"\uDC00\uD800"` produces `"\uD800\uDC00"`
which is a valid surrogate pair.\n */\n fun reverse(): StringBuilder\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 fun append(value: Any?): StringBuilder\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("1.3")\n fun append(value:
Boolean): StringBuilder\n\n /**\n * Appends characters in the specified character array [value] to this string
builder and returns this instance.\n *\n * Characters are appended in order, starting at the index 0.\n */\n
@SinceKotlin("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n fun append(value: CharArray):
StringBuilder\n\n /**\n * Appends the specified string [value] to this string builder and returns this instance.\n
*\n * If [value] is `null`, then the four characters `"\u0000\u0000\u0000\u0000"` are appended.\n */\n @SinceKotlin("1.3")\n fun
append(value: String?): StringBuilder\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("1.3")\n// @ExperimentalStdlibApi\n @Deprecated("Obtaining StringBuilder capacity is not
supported in JS and common code.", level = DeprecationLevel.ERROR)\n fun capacity(): Int\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 @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun ensureCapacity(minimumCapacity: Int)\n\n /**\n *
Returns the index within this string builder of the first occurrence of the specified [string].\n *\n * Returns `-1`
if the specified [string] does not occur in this string builder.\n */\n @SinceKotlin("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun indexOf(string: String): Int\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("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\n
fun indexOf(string: String, startIndex: Int): Int\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("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\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("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\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("1.4")\n @WasExperimental(ExperimentalStdlibApi::class)\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("1.4")\n
@WasExperimental(ExperimentalStdlibApi::class)\n fun insert(index: Int, value: Char): StringBuilder\n\n /**

```

\* Inserts characters in the specified character array [value] into this string builder at the specified [index] and returns this instance.

\* The inserted characters go in same order as in the [value] character array, starting at [index].

\* @throws IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.

```
@SinceKotlin("1.4")
@WasExperimental(ExperimentalStdlibApi::class)
fun insert(index: Int, value: CharArray): String Builder {
 // * Inserts characters in the specified character
 // sequence [value] into this string builder at the specified [index] and returns this instance.
 // * The inserted
 // characters go in the same order as in the [value] character sequence, starting at [index].
 // * @param index
 // the position in this string builder to insert at.
 // * @param value the character sequence from which characters are
 // inserted. If [value] is `null`, then the four characters `"\null"` are inserted.
 // * @throws
 // IndexOutOfBoundsException if [index] is less than zero or greater than the length of this string builder.
 // */
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 fun insert(index: Int, value:
 CharSequence?): String Builder {
 // * Inserts the string representation of the specified object [value] into
 // this string builder at the specified [index] and returns this instance.
 // * The overall effect is exactly as if the
 // [value] were converted to a string by the `value.toString()` method,
 // * and then that string was inserted into this
 // string builder at the specified [index].
 // * @throws IndexOutOfBoundsException if [index] is less than
 // zero or greater than the length of this string builder.
 // */
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 fun insert(index: Int, value: Any?): String Builder {
 // * Inserts the string [value] into this string builder at the specified [index] and returns this instance.
 // * If
 // [value] is `null`, then the four characters `"\null"` are inserted.
 // * @throws IndexOutOfBoundsException
 // if [index] is less than zero or greater than the length of this string builder.
 // */
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 fun insert(index: Int, value: String?): String Builder {
 // * Sets the length of this string builder to the specified [newLength].
 // * If the [newLength] is less
 // than the current length, it is changed to the specified [newLength].
 // * Otherwise, null characters `'\u0000'` are
 // appended to this string builder until its length is less than the [newLength].
 // * Note that in Kotlin/JS [set]
 // operator function has non-constant execution time complexity.
 // * Therefore, increasing length of this string
 // builder and then updating each character by index may slow down your program.
 // * @throws
 // IndexOutOfBoundsException or [IllegalArgumentException] if [newLength] is less than zero.
 // */
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 fun setLength(newLength:
 Int) {
 // * Returns a new [String] that contains characters in this string builder at [startIndex] (inclusive)
 // and up to the [length] (exclusive).
 // * @throws IndexOutOfBoundsException if [startIndex] is less than
 // zero or greater than the length of this string builder.
 // */
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 fun substring(startIndex: Int): String {
 // * Returns
 // a new [String] that contains characters in this string builder at [startIndex] (inclusive) and up to the [endIndex]
 // (exclusive).
 // * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex]
 // or [endIndex] is out of range of this string builder indices or when `startIndex > endIndex`.
 // */
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 fun substring(startIndex: Int,
 endIndex: Int): String {
 // * Attempts to reduce storage used for this string builder.
 // * If the
 // backing storage of this string builder is larger than necessary to hold its current contents,
 // * then it may be
 // resized to become more space efficient.
 // * Calling this method may, but is not required to, affect the value of the
 // [capacity] property.
 // */
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 fun trimToSize() {
 // * Clears the content of this string builder making it empty and returns this instance.
 // */
 @sample samples.text.Strings.clearStringBuilder
 }
 @SinceKotlin("1.3")
 public expect fun
 String Builder.clear(): String Builder {
 // * Sets the character at the specified [index] to the specified [value].
 // * @throws IndexOutOfBoundsException if [index] is out of bounds of this string builder.
 // */
 @SinceKotlin("1.4")
 @WasExperimental(ExperimentalStdlibApi::class)
 public expect operator fun
 String Builder.set(index: Int, value: Char) {
 // * Replaces characters in the specified range of this string builder
 // with characters in the specified string [value] and returns this instance.
 // * @param startIndex the beginning
 // (inclusive) of the range to replace.
 // * @param endIndex the end (exclusive) of the range to replace.
 // * @param
```

value the string to replace with. \n \* \n \* @throws IndexOutOfBoundsException or [IllegalArgumentException] if [startIndex] is less than zero, greater than the length of this string builder, or `startIndex > endIndex`. \n

```
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\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("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\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 * \n * @param endIndex the end (exclusive) of the range to remove.\n * \n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] is out of range of this string builder
indices or when `startIndex > endIndex`. \n
```

\*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\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 * \n * @param
destinationOffset the position in the array to copy to, 0 by default.\n * \n * @param startIndex the beginning (inclusive)
of the range to copy, 0 by default.\n * \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("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun

```
StringBuilder.toCharArray(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int =
this.length)\n\n/**\n * Appends characters in a subarray of the specified character array [value] to this string builder
and returns this instance.\n * \n * Characters are appended in order, starting at specified [startIndex].\n * \n * @param
value the array from which characters are appended.\n * \n * @param startIndex the beginning (inclusive) of the
subarray to append.\n * \n * @param endIndex the end (exclusive) of the subarray to append.\n * \n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] array indices or when `startIndex > endIndex`. \n
```

\*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun

```
StringBuilder.appendRange(value: CharArray, startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Appends a
subsequence of the specified character sequence [value] to this string builder and returns this instance.\n * \n *
@param value the character sequence from which a subsequence is appended.\n * \n * @param startIndex the beginning
(inclusive) of the subsequence to append.\n * \n * @param endIndex the end (exclusive) of the subsequence to append.\n
\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out
of range of the [value] character sequence indices or when `startIndex > endIndex`. \n
```

\*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic expect fun

```
StringBuilder.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): StringBuilder\n\n/**\n * Inserts
characters in a subarray of the specified character array [value] into this string builder at the specified [index] and
returns this instance.\n * \n * The inserted characters go in same order as in the [value] array, starting at [index].\n
\n * \n * @param index the position in this string builder to insert at.\n * \n * @param value the array from which
characters are inserted.\n * \n * @param startIndex the beginning (inclusive) of the subarray to insert.\n * \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
```

```

*^@SinceKotlin("1.4")^@WasExperimental(ExperimentalStdlibApi::class)^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 * The inserted characters go in the same order as in the [value] character
sequence, starting at [index].\n * @param index the position in this string builder to insert at.\n * @param value
the character sequence from which a subsequence is inserted.\n * @param startIndex the beginning (inclusive) of the
subsequence to insert.\n * @param endIndex the end (exclusive) of the subsequence to insert.\n * @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("1.4")^@WasExperimental(ExperimentalStdlibApi::class)^npublic expect fun
StringBuilder.insertRange(index: Int, value: CharSequence, startIndex: Int, endIndex: Int):
StringBuilder\n\n@Suppress("EXTENSION_SHADOWED_BY_MEMBER")\n@Deprecated("Use
append(value: Any?) instead", ReplaceWith("append(value = obj)")),
DeprecationLevel.WARNING)\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.append(obj: Any?):
StringBuilder = this.append(obj)\n\n/**
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 contract { callsInPlace(builderAction,
InvocationKind.EXACTLY_ONCE) }\n return StringBuilder().apply(builderAction).toString()\n}\n\n/**
Builds new string by populating newly created [StringBuilder] initialized with the given [capacity]\n * using
provided [builderAction] and then converting it to [String].\n
*^@SinceKotlin("1.1")\n@kotlin.internal.InlineOnly\npublic inline fun buildString(capacity: Int, builderAction:
String Builder.() -> Unit): String {\n contract { callsInPlace(builderAction, InvocationKind.EXACTLY_ONCE)
}\n return StringBuilder(capacity).apply(builderAction).toString()\n}\n\n/**
Appends all arguments to the
given String Builder.\n *^@public 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 String Builder.\n
*^@public fun StringBuilder.append(vararg value: Any?): String Builder {\n for (item in value)\n append(item)\n
return this\n}\n\n/**
Appends a line feed character (`\n`) to this String Builder.
*^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine():
StringBuilder = append("\n")\n\n/**
Appends [value] to this [StringBuilder], followed by a line feed character
(`\n`). *^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value:
CharSequence?): String Builder = append(value).appendLine()\n\n/**
Appends [value] to this [StringBuilder],
followed by a line feed character (`\n`). *^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
StringBuilder.appendLine(value: String?): String Builder = append(value).appendLine()\n\n/**
Appends [value] to
this [StringBuilder], followed by a line feed character (`\n`).
*^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value: Any?):
StringBuilder = append(value).appendLine()\n\n/**
Appends [value] to this [StringBuilder], followed by a line feed
character (`\n`). *^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
StringBuilder.appendLine(value: CharArray): String Builder = append(value).appendLine()\n\n/**
Appends [value]
to this [StringBuilder], followed by a line feed character (`\n`).
*^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun StringBuilder.appendLine(value: Char):
StringBuilder = append(value).appendLine()\n\n/**
Appends [value] to this [StringBuilder], followed by a line feed
character (`\n`). *^@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
StringBuilder.appendLine(value: Boolean): String Builder = append(value).appendLine()\n\n/**
Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *^@npackage kotlin.text\nimport
kotlin.js.RegExp\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun String.nativeIndexOf(ch: Char,
fromIndex: Int): Int = nativeIndexOf(ch.toString(), fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal actual

```





```

malformed(0, index, throwOnMalformed)\n }\n\n if (index + 1 == endIndex) {\n return malformed(1, index,
throwOnMalformed)\n }\n\n val byte3 = bytes[index + 1].toInt()\n if (byte3 and 0xC0 != 0x80) {\n return
malformed(1, index, throwOnMalformed)\n }\n\n return (byte1 shl 12) xor (byte2 shl 6) xor byte3 xor -
0x1E080)\n}\n\n/**\n * Returns code point corresponding to UTF-8 sequence of four bytes,\n * where the first byte
of the sequence is the [byte1] and the others are in the [bytes] array starting from the [index].\n * Returns a non-
positive value indicating number of bytes from [bytes] included in malformed sequence\n * if the sequence is
malformed and [throwOnMalformed] is false.\n * @throws CharacterCodingException if the sequence of four
bytes is malformed and [throwOnMalformed] is true.\n */\nprivate fun codePointFrom4(bytes: ByteArray, byte1:
Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n if (index >= endIndex) {\n malformed(0,
index, throwOnMalformed)\n }\n\n val byte2 = bytes[index].toInt()\n if (byte1 and 0xF == 0x0) {\n if
(byte2 and 0xF0 <= 0x80) {\n // Non-shortest form\n return malformed(0, index,
throwOnMalformed)\n }\n } else if (byte1 and 0xF == 0x4) {\n if (byte2 and 0xF0 != 0x80) {\n //
Out of Unicode code points domain (larger than U+10FFFF)\n return malformed(0, index,
throwOnMalformed)\n }\n } else if (byte1 and 0xF > 0x4) {\n return malformed(0, index,
throwOnMalformed)\n } else if (byte2 and 0xC0 != 0x80) {\n return malformed(0, index,
throwOnMalformed)\n }\n\n if (index + 1 == endIndex) {\n return malformed(1, index,
throwOnMalformed)\n }\n\n val byte3 = bytes[index + 1].toInt()\n if (byte3 and 0xC0 != 0x80) {\n return
malformed(1, index, throwOnMalformed)\n }\n\n if (index + 2 == endIndex) {\n return malformed(2, index,
throwOnMalformed)\n }\n\n val byte4 = bytes[index + 2].toInt()\n if (byte4 and 0xC0 != 0x80) {\n return
malformed(2, index, throwOnMalformed)\n }\n\n return (byte1 shl 18) xor (byte2 shl 12) xor (byte3 shl 6) xor
byte4 xor 0x381F80)\n}\n\n/**\n * Maximum number of bytes needed to encode a single char.\n * Code points in
`0..0x7F` are encoded in a single byte.\n * Code points in `0x80..0x7FF` are encoded in two bytes.\n * Code points
in `0x800..0xD7FF` or in `0xE000..0xFFFF` are encoded in three bytes.\n * Surrogate code points in
`0xD800..0xDFFF` are not Unicode scalar values, therefore aren't encoded.\n * Code points in
`0x10000..0x10FFFF` are represented by a pair of surrogate `Char`s and are encoded in four bytes.\n */\nprivate
const val MAX_BYTES_PER_CHAR = 3\n\n/**\n * The byte sequence a malformed UTF-16 char sequence is
replaced by.\n */\nprivate val REPLACEMENT_BYTE_SEQUENCE: ByteArray = byteArrayOf(0xEF.toByte(),
0xBF.toByte(), 0xBD.toByte())\n\n/**\n * Encodes the [string] using UTF-8 and returns the resulting [ByteArray].\n */\n * @param string the string to encode.\n * @param startIndex the start offset (inclusive) of the substring to
encode.\n * @param endIndex the end offset (exclusive) of the substring to encode.\n * @param
throwOnMalformed whether to throw on malformed char sequence or replace by the
[REPLACEMENT_BYTE_SEQUENCE].\n * @throws CharacterCodingException if the char sequence is
malformed and [throwOnMalformed] is true.\n */\ninternal fun encodeUtf8(string: String, startIndex: Int, endIndex:
Int, throwOnMalformed: Boolean): ByteArray {\n require(startIndex >= 0 && endIndex <= string.length &&
startIndex <= endIndex)\n\n val bytes = ByteArray((endIndex - startIndex) * MAX_BYTES_PER_CHAR)\n var
byteIndex = 0\n var charIndex = startIndex\n\n while (charIndex < endIndex) {\n val code =
string[charIndex++].code\n when {\n code < 0x80 ->\n 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 bytes[byteIndex++] = ((code shr 12) or 0xE0).toByte()\n bytes[byteIndex++] = (((code shr 6)
and 0x3F) or 0x80).toByte()\n bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n }\n
 else -> { // Surrogate char value\n val codePoint = codePointFromSurrogate(string, code, charIndex,
endIndex, throwOnMalformed)\n if (codePoint <= 0) {\n bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[0]\n bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[1]\n bytes[byteIndex++] =
REPLACEMENT_BYTE_SEQUENCE[2]\n } else {\n bytes[byteIndex++] = ((codePoint shr
18) or 0xF0).toByte()\n bytes[byteIndex++] = (((codePoint shr 12) and 0x3F) or 0x80).toByte()\n
 bytes[byteIndex++] = (((codePoint shr 6) and 0x3F) or 0x80).toByte()\n bytes[byteIndex++] =

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((codePoint and 0x3F) or 0x80).toByte())\n charIndex++\n }\n }\n }\n\nreturn 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 = "\uFFFFD"\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 * @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 0x3FFF) 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 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n/**\n * Returns the detailed description of this throwable with its stack trace.\n */\n * The detailed description includes:\n * - the short description (see [Throwable.toString]) of this throwable;\n * - the complete stack trace;\n * - detailed descriptions of the exceptions that were [suppressed][suppressedExceptions] in order to deliver this exception;\n * - the detailed description of each throwable in the [Throwable.cause] chain.\n */\n@SinceKotlin("1.4")\npublic actual fun Throwable.stackTraceToString(): String = ExceptionTraceBuilder().buildFor(this)\n\n/**\n * Prints the [detailed description][Throwable.stackTraceToString] of this throwable to console error output.\n */\n@SinceKotlin("1.4")\npublic actual fun Throwable.printStackTrace() {\n console.error(this.stackTraceToString())\n}\n\n/**\n * Adds the specified exception to the list of exceptions that were\n * suppressed in order to deliver this exception.\n */\n@SinceKotlin("1.4")\npublic actual fun Throwable.addSuppressed(exception: Throwable) {\n if (this !== exception) {\n val suppressed = this.asDynamic()._suppressed.unsafeCast<MutableList<Throwable>>()\n if (suppressed == null) {\n this.asDynamic()._suppressed = mutableListOf(exception)\n } else {\n suppressed.add(exception)\n }\n }\n}\n\n/**\n * Returns a list of all exceptions that were suppressed in order to deliver this exception.\n */\n@SinceKotlin("1.4")\npublic actual val Throwable.suppressedExceptions: List<Throwable>\n get() {\n return this.asDynamic()._suppressed?.unsafeCast<List<Throwable>>() ?: emptyList()\n }\n}\n\nprivate class ExceptionTraceBuilder {\n private val target = StringBuilder()\n private val visited = arrayOf<Throwable>()\n private var topStack: String = ""\n private var topStackStart: Int = 0\n fun buildFor(exception: Throwable): String {\n exception.dumpFullTrace("", "")\n return target.toString()\n }\n private fun hasSeen(exception: Throwable): Boolean = visited.any { it === exception }\n private fun Throwable.dumpFullTrace(indent: String, qualifier: String) {\n this.dumpSelfTrace(indent, qualifier) ||\n return\n }\n var cause = this.cause\n while (cause != null) {\n cause.dumpSelfTrace(indent, "Caused

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by: \") || return\n cause = cause.cause\n }\n }\n\n private fun Throwable.dumpSelfTrace(indent:
String, qualifier: String): Boolean {\n target.append(indent).append(qualifier)\n val shortInfo =
this.toString()\n if (hasSeen(this)) {\n target.append("[CIRCULAR REFERENCE, SEE ABOVE:
\").append(shortInfo).append("\n\n")\n return false\n }\n visited.asDynamic().push(this)\n var
stack = this.asDynamic().stack as String?\n if (stack != null) {\n val stackStart =
stack.indexOf(shortInfo).let { if (it < 0) 0 else it + shortInfo.length }\n if (stackStart == 0)
target.append(shortInfo).append("\n\n")\n if (topStack.isEmpty()) {\n topStack = stack\n
topStackStart = stackStart\n } else {\n stack = dropCommonFrames(stack, stackStart)\n }\n
 if (indent.isNotEmpty()) {\n // indent stack, but avoid indenting exception message lines\n val
messageLines = if (stackStart == 0) 0 else 1 + shortInfo.count { c -> c == '\n' }\n stack.lineSequence().forEachIndexed { index: Int, line: String ->\n
target.append(indent)\n target.append(line).append("\n\n")\n }\n } else {\n
target.append(stack).append("\n\n")\n }\n } else {\n target.append(shortInfo).append("\n\n")\n
}\n\n val suppressed = suppressedExceptions\n if (suppressed.isNotEmpty()) {\n val
suppressedIndent = indent + "\n\n" for (s in suppressed) {\n s.dumpFullTrace(suppressedIndent,
"\nSuppressed: \")\n }\n }\n return true\n }\n\n private fun dropCommonFrames(stack: String,
stackStart: Int): String {\n var commonFrames: Int = 0\n var lastBreak: Int = 0\n var preLastBreak: Int
= 0\n for (pos in 0 until minOf(topStack.length - topStackStart, stack.length - stackStart)) {\n val c =
stack[stack.lastIndex - pos]\n if (c != topStack[topStack.lastIndex - pos]) break\n if (c == '\n') {\n
commonFrames += 1\n preLastBreak = lastBreak\n lastBreak = pos\n }\n }\n
if (commonFrames <= 1) return stack\n while (preLastBreak > 0 && stack[stack.lastIndex - (preLastBreak - 1)]
== '\n')\n preLastBreak -= 1\n // leave 1 common frame to ease matching with the top exception stack\n
return stack.dropLast(preLastBreak) + "... and ${commonFrames - 1} more common stack frames skipped"\n
}\n\n", /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
/\n\npackage kotlin.time\n\nimport kotlin.js.json\nimport kotlin.math.\n\ninternal actual inline val
durationAssertionsEnabled: Boolean get() = true\n\ninternal actual fun formatToExactDecimals(value: Double,
decimals: Int): String {\n val rounded = if (decimals == 0) {\n value\n } else {\n val pow =
10.0.pow(decimals)\n JsMath.round(abs(value) * pow) / pow * sign(value)\n }\n return if (abs(rounded) <
1e21) {\n // toFixed switches to scientific format after 1e21\n
rounded.asDynamic().toFixed(decimals).unsafeCast<String>()\n } else {\n // toPrecision outputs the specified
number of digits, but only for positive numbers\n val positive = abs(rounded)\n val positiveString =
positive.asDynamic().toPrecision(ceil(log10(positive)) + decimals).unsafeCast<String>()\n if (rounded < 0) "-"
+ positiveString\n } else positiveString\n }\n}\n\ninternal actual fun formatUpToDecimals(value: Double, decimals:
Int): String {\n return value.asDynamic().toLocaleString("en-us", json("maximumFractionDigits" to
decimals)).unsafeCast<String>()\n}\n\n", /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage
kotlin.time\n\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalTime::class)\npublic actual enum class
DurationUnit(internal val scale: Double) {\n /**\n * Time unit representing one nanosecond, which is 1/1000
of a microsecond.\n */\n NANOSECONDS(1e0),\n /**\n * Time unit representing one microsecond, which is
1/1000 of a millisecond.\n */\n MICROSECONDS(1e3),\n /**\n * Time unit representing one millisecond,
which is 1/1000 of a second.\n */\n MILLISECONDS(1e6),\n /**\n * Time unit representing one second.\n
*/\n SECONDS(1e9),\n /**\n * Time unit representing one minute.\n */\n MINUTES(60e9),\n /**\n
 * Time unit representing one hour.\n */\n HOURS(3600e9),\n /**\n * Time unit representing one day,
which is always equal to 24 hours.\n */\n DAYS(86400e9);\n}\n\n@SinceKotlin("1.3")\ninternal actual fun
convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double {\n val
sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n return when {\n

```



to element. Has no effect if all specified classes are already in class attribute of the element

```

 * @return true if at least one class has been added
 * ^\n@SinceKotlin("1.4")\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 }
 \n return true
 \n }
 \n return false
 \n}

```

\* Removes all [cssClasses] from element. Has no effect if all specified classes are missing in class attribute of the element

```

 * @return true if at least one class has been removed
 * ^\n@SinceKotlin("1.4")\nfun Element.removeClass(vararg cssClasses: String): Boolean {
 \n if (cssClasses.any { hasClass(it) }) {
 \n val toBeRemoved = cssClasses.toSet()
 \n className = className.trim().split("\\s+").toRegex().filter { it !in toBeRemoved }.joinToString(" ")
 \n return true
 \n }
 \n return false
 \n}

```

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```

 * ^\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("StringsKt")\n\npackage kotlin.text\n\n/**
 * Converts the string into a regular expression [Regex] with the default options.
 * ^\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(): Regex = Regex(this)\n\n/**
 * Converts the string into a regular expression [Regex] with the specified single [option].
 * ^\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(option: RegexOption): Regex = Regex(this, option)\n\n/**
 * Converts the string into a regular expression [Regex] with the specified set of [options].
 * ^\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(options: Set<RegexOption>): Regex = Regex(this, options)\n",
 */
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 * ^\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@SinceKotlin("1.4")\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@SinceKotlin("1.4")\npublic val Node.isElement: Boolean
 \n get() = nodeType == Node.ELEMENT_NODE
 \n",
 */
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 * ^\n\npackage kotlin.dom\n\nimport org.w3c.dom.*\n\n/**
 * Removes all the children from this node.
 * ^\n@SinceKotlin("1.4")\npublic fun Node.clear() {
 \n while (hasChildNodes()) {
 \n removeChild(firstChild!!)
 \n }
 \n}
 \n\n/**
 * Creates text node and append it to the element.
 * ^\n * @return this element
 * ^\n@SinceKotlin("1.4")\nfun Element.appendChild(text: String): Element {
 \n appendChild(ownerDocument!!.createTextNode(text))
 \n return this
 \n}
 \n",
 */
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 * ^\n\npackage org.w3c.dom\n\n@Deprecated("Use UnionMessagePortOrWindowProxy instead.", ReplaceWith("UnionMessagePortOrWindowProxy"))\ntypealias UnionMessagePortOrWindow = UnionMessagePortOrWindowProxy\n\n@Deprecated("Use `as` instead.", ReplaceWith("`as`"))\nvar HTMLLinkElement.as_ get() = as set(value) { as = value }\n\n@Deprecated("Use `is` instead.", ReplaceWith("`is`"))\nvar ElementCreationOptions.is_ get() = is set(value) { is = value }
 \n",
 */
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 * ^\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!
 \n// See github.com/kotlin/dukat for details
 \n\npackage org.khronos.webgl\n\nimport kotlin.js.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external interface WebGLContextAttributes {
 \n var alpha: Boolean? /* = true */
 \n get() = definedExternally
 \n set(value) = definedExternally
 \n var depth: Boolean? /* = true */
 \n get() = definedExternally
 \n set(value) = definedExternally
 \n var stencil: Boolean? /* = false */
 \n get() = definedExternally
 \n set(value) = definedExternally
 \n var antialias: Boolean? /* = true */
 \n get() = definedExternally
 \n set(value) = definedExternally
 \n var premultipliedAlpha: Boolean?

```

```

/* = true */\n get() = definedExternally\n set(value) = definedExternally\n var preserveDrawingBuffer:
Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var
preferLowPowerToHighPerformance: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n var failIfMajorPerformanceCaveat: Boolean? /* = false */\n get() = definedExternally\n
 set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun 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 */\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 */\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 */\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 */\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 */\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 */\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
*/\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 */\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 */\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\")\n\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:

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Float, alpha: Float)\n fun clearDepth(depth: Float)\n fun clearStencil(s: Int)\n fun colorMask(red: Boolean, green: Boolean, blue: Boolean, alpha: Boolean)\n fun compileShader(shader: WebGLShader?)\n fun compressedTexImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, data: ArrayBufferView)\n fun compressedTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int, format: Int, data: ArrayBufferView)\n fun copyTexImage2D(target: Int, level: Int, internalformat: Int, x: Int, y: Int, width: Int, height: Int, border: Int)\n fun copyTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, x: Int, y: Int, width: Int, height: Int)\n fun createBuffer(): WebGLBuffer?\n fun createFramebuffer(): WebGLFramebuffer?\n fun createProgram(): WebGLProgram?\n fun createRenderbuffer(): WebGLRenderbuffer?\n fun createShader(type: Int): WebGLShader?\n fun createTexture(): WebGLTexture?\n fun cullFace(mode: Int)\n fun deleteBuffer(buffer: WebGLBuffer?)\n fun deleteFramebuffer(framebuffer: WebGLFramebuffer?)\n fun deleteProgram(program: WebGLProgram?)\n fun deleteRenderbuffer(renderbuffer: WebGLRenderbuffer?)\n fun deleteShader(shader: WebGLShader?)\n fun deleteTexture(texture: WebGLTexture?)\n fun depthFunc(func: Int)\n fun depthMask(flag: Boolean)\n fun depthRange(zNear: Float, zFar: Float)\n fun detachShader(program: WebGLProgram?, shader: WebGLShader?)\n fun disable(cap: Int)\n fun disableVertexArray(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 enableVertexArray(index: Int)\n fun finish()\n fun flush()\n fun framebufferRenderbuffer(target: Int, attachment: Int, renderbuffertarget: Int, renderbuffer: WebGLRenderbuffer?)\n fun framebufferTexture2D(target: Int, attachment: Int, textarget: Int, texture: WebGLTexture?, level: Int)\n fun frontFace(mode: Int)\n fun generateMipmap(target: Int)\n fun getActiveAttrib(program: WebGLProgram?, index: Int): WebGLActiveInfo?\n fun getActiveUniform(program: WebGLProgram?, index: Int): WebGLActiveInfo?\n fun getAttachedShaders(program: WebGLProgram?): Array<WebGLShader?>\n fun getAttribLocation(program: WebGLProgram?, name: String): Int\n fun getBufferParameter(target: Int, pname: Int): Any?\n fun getParameter(pname: Int): Any?\n fun getError(): Int\n fun getFramebufferAttachmentParameter(target: Int, attachment: Int, pname: Int): Any?\n fun getProgramParameter(program: WebGLProgram?, pname: Int): Any?\n fun getProgramInfoLog(program: WebGLProgram?): String?\n fun getRenderbufferParameter(target: Int, pname: Int): Any?\n fun getShaderParameter(shader: WebGLShader?, pname: Int): Any?\n fun getShaderPrecisionFormat(shadertype: Int, precisiontype: Int): WebGLShaderPrecisionFormat?\n fun getShaderInfoLog(shader: WebGLShader?): String?\n fun getShaderSource(shader: WebGLShader?): String?\n fun getTexParameter(target: Int, pname: Int): Any?\n fun getUniform(program: WebGLProgram?, location: WebGLUniformLocation?): Any?\n fun getUniformLocation(program: WebGLProgram?, name: String): WebGLUniformLocation?\n fun getVertexAttrib(index: Int, pname: Int): Any?\n fun getVertexAttribOffset(index: Int, pname: Int): Int\n fun hint(target: Int, mode: Int)\n fun isBuffer(buffer: WebGLBuffer?): Boolean\n fun isEnabled(cap: Int): Boolean\n fun isFramebuffer(framebuffer: WebGLFramebuffer?): Boolean\n fun isProgram(program: WebGLProgram?): Boolean\n fun isRenderbuffer(renderbuffer: WebGLRenderbuffer?): Boolean\n fun isShader(shader: WebGLShader?): Boolean\n fun isTexture(texture: WebGLTexture?): Boolean\n fun lineWidth(width: Float)\n fun linkProgram(program: WebGLProgram?)\n fun pixelStorei(pname: Int, param: Int)\n fun polygonOffset(factor: Float, units: Float)\n fun readPixels(x: Int, y: Int, width: Int, height: Int, format: Int, type: Int, pixels: ArrayBufferView?)\n fun renderbufferStorage(target: Int, internalformat: Int, width: Int, height: Int)\n fun sampleCoverage(value: Float, invert: Boolean)\n fun scissor(x: Int, y: Int, width: Int, height: Int)\n fun shaderSource(shader: WebGLShader?, source: String)\n fun stencilFunc(func: Int, ref: Int, mask: Int)\n fun stencilFuncSeparate(face: Int, func: Int, ref: Int, mask: Int)\n fun stencilMask(mask: Int)\n fun stencilMaskSeparate(face: Int, mask: Int)\n fun stencilOp(fail: Int, zfail: Int, zpass: Int)\n fun stencilOpSeparate(face: Int, fail: Int, zfail: Int, zpass: Int)\n fun texImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, format: Int, type: Int, pixels: ArrayBufferView?)\n fun texImage2D(target: Int, level: Int, internalformat: Int, format: Int, type: Int, source: TexImageSource?)\n fun texParameterf(target: Int, pname: Int, param: Float)\n fun texParameteri(target: Int, pname: Int, param: Int)\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int,

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format: Int, type: Int, pixels: ArrayBufferView?)\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset:
Int, format: Int, type: Int, source: TextureSource?)\n fun uniform1f(location: WebGLUniformLocation?, x:
Float)\n fun uniform1fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform1fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform1i(location: WebGLUniformLocation?, x: Int)\n fun
uniform1iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform1iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniform2f(location: WebGLUniformLocation?, x: Float, y:
Float)\n fun uniform2fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform2fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform2i(location: WebGLUniformLocation?, x: Int, y: Int)\n
fun uniform2iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform2iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniform3f(location: WebGLUniformLocation?, x: Float, y: Float,
z: Float)\n fun uniform3fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform3fv(location:
WebGLUniformLocation?, v: Array<Float>)\n fun uniform3i(location: WebGLUniformLocation?, x: Int, y: Int, z:
Int)\n fun uniform3iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform3iv(location:
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

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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

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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

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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

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

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UNPACK_FLIP_Y_WEBGL: Int\n val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\n val
CONTEXT_LOST_WEBGL: Int\n val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\n val
BROWSER_DEFAULT_WEBGL: Int\n }\n}\n\n/**\n * Exposes the JavaScript
[WebGLContextEvent](https://developer.mozilla.org/en/docs/Web/API/WebGLContextEvent) to Kotlin\n
*/\npublic external open class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit =
definedExternally) : Event {\n open val statusMessage: 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 WebGLContextEventInit : EventInit {\n var statusMessage: String? /* = "" */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun
WebGLContextEventInit(statusMessage: String? = "", bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): WebGLContextEventInit {\n val o = js("{}")\n o["statusMessage"] =
statusMessage\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n
return o\n}\n\n/**\n * Exposes the JavaScript
[ArrayBuffer](https://developer.mozilla.org/en/docs/Web/API/ArrayBuffer) to Kotlin\n
*/\npublic external open
class ArrayBuffer(length: Int) : BufferDataSource {\n open val byteLength: Int\n fun slice(begin: Int, end: Int =
definedExternally): ArrayBuffer\n\n companion object {\n fun isView(value: Any?): Boolean\n
 }\n}\n\n/**\n * Exposes the JavaScript
[ArrayBufferView](https://developer.mozilla.org/en/docs/Web/API/ArrayBufferView) to Kotlin\n
*/\npublic
external interface ArrayBufferView : BufferDataSource {\n val buffer: ArrayBuffer\n val byteOffset: Int\n val
byteLength: Int\n}\n\n/**\n * Exposes the JavaScript
[Int8Array](https://developer.mozilla.org/en/docs/Web/API/Int8Array) to Kotlin\n
*/\npublic external open class
Int8Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Int8Array)\n constructor(array:
Array<Byte>)\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: Int8Array, offset: Int = definedExternally)\n fun set(array:
Array<Byte>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Int8Array\n\n companion
object {\n val BYTES_PER_ELEMENT: Int\n }\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int8Array.get(index: Int):
Byte = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int8Array.set(index: Int,
value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint8Array](https://developer.mozilla.org/en/docs/Web/API/Uint8Array) to Kotlin\n
*/\npublic external open class
Uint8Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Uint8Array)\n
constructor(array: Array<Byte>)\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: Uint8Array, offset: Int = definedExternally)\n fun set(array:
Array<Byte>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Uint8Array\n\n companion
object {\n val BYTES_PER_ELEMENT: Int\n }\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint8Array.get(index: Int):
Byte = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint8Array.set(index: Int,
value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint8ClampedArray](https://developer.mozilla.org/en/docs/Web/API/Uint8ClampedArray) to Kotlin\n
*/\npublic
external open class Uint8ClampedArray : ArrayBufferView {\n constructor(length: Int)\n constructor(array:
Uint8ClampedArray)\n constructor(array: Array<Byte>)\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: Uint8ClampedArray, offset: Int =

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definedExternally)\n fun set(array: Array<Byte>, offset: Int = definedExternally)\n fun subarray(start: Int, end:
Int): Uint8ClampedArray\n\n companion object {\n val BYTES_PER_ELEMENT: Int\n
}\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
Uint8ClampedArray.get(index: Int): Byte = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun
Uint8ClampedArray.set(index: Int, value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Int16Array](https://developer.mozilla.org/en/docs/Web/API/Int16Array) to Kotlin\n *\npublic external open class
Int16Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Int16Array)\n
constructor(array: Array<Short>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset:
Int\n override val byteLength: Int\n fun set(array: Int16Array, offset: Int = definedExternally)\n fun set(array:
Array<Short>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Int16Array\n\n companion
object {\n val BYTES_PER_ELEMENT: Int\n }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int16Array.get(index: Int):
Short = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int16Array.set(index: Int,
value: Short) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint16Array](https://developer.mozilla.org/en/docs/Web/API/Uint16Array) to Kotlin\n *\npublic external open
class Uint16Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Uint16Array)\n
constructor(array: Array<Short>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length:
Int = definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset:
Int\n override val byteLength: Int\n fun set(array: Uint16Array, offset: Int = definedExternally)\n fun set(array:
Array<Short>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Uint16Array\n\n companion
object {\n val BYTES_PER_ELEMENT: Int\n }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint16Array.get(index: Int):
Short = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint16Array.set(index: Int,
value: Short) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Int32Array](https://developer.mozilla.org/en/docs/Web/API/Int32Array) to Kotlin\n *\npublic external open class
Int32Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Int32Array)\n
constructor(array: Array<Int>)\n constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int
= definedExternally)\n open val length: Int\n override val buffer: ArrayBuffer\n override val byteOffset: Int\n
override val byteLength: Int\n fun set(array: Int32Array, offset: Int = definedExternally)\n fun set(array:
Array<Int>, offset: Int = definedExternally)\n fun subarray(start: Int, end: Int): Int32Array\n\n companion object
{\n val BYTES_PER_ELEMENT: Int\n }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int32Array.get(index: Int): Int
= asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Int32Array.set(index: Int,
value: Int) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint32Array](https://developer.mozilla.org/en/docs/Web/API/Uint32Array) to Kotlin\n *\npublic external open
class Uint32Array : ArrayBufferView {\n constructor(length: Int)\n constructor(array: Uint32Array)\n
constructor(array: Array<Int>)\n 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@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint32Array.get(index: Int):

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Int = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\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@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float32Array.get(index: Int):
Float = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\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}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float64Array.get(index: Int):
Double = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float64Array.set(index: Int,
value: Double) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[DataView](https://developer.mozilla.org/en/docs/Web/API/DataView) to Kotlin\n */\npublic external open class
DataView(buffer: ArrayBuffer, byteOffset: Int = definedExternally, byteLength: Int = definedExternally) :
ArrayBufferView {\n override val buffer: ArrayBuffer\n override val byteOffset: Int\n override val
byteLength: Int\n fun getInt8(byteOffset: Int): Byte\n fun getUint8(byteOffset: Int): Byte\n fun
getInt16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short\n fun getUint16(byteOffset: Int,
littleEndian: Boolean = definedExternally): Short\n fun getInt32(byteOffset: Int, littleEndian: Boolean =
definedExternally): Int\n fun getUint32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int\n fun
getFloat32(byteOffset: Int, littleEndian: Boolean = definedExternally): Float\n fun getFloat64(byteOffset: Int,
littleEndian: Boolean = definedExternally): Double\n fun setInt8(byteOffset: Int, value: Byte)\n fun
setUint8(byteOffset: Int, value: Byte)\n fun setInt16(byteOffset: Int, value: Short, littleEndian: Boolean =
definedExternally)\n fun setUint16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally)\n
fun setInt32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally)\n fun setUint32(byteOffset: Int,
value: Int, littleEndian: Boolean = definedExternally)\n fun setFloat32(byteOffset: Int, value: Float, littleEndian:
Boolean = definedExternally)\n fun setFloat64(byteOffset: Int, value: Double, littleEndian: Boolean =
definedExternally)\n}\n\npublic external interface BufferDataSource\n\npublic external interface
TexImageSource\", /*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for
details\n\npackage org.w3c.dom.clipboard\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport
org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external interface ClipboardEventInit : EventInit {\n var
clipboardData: DataTransfer? /* = null */\n get() = definedExternally\n set(value) =

```

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definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ClipboardEventInit(clipboardData:
DataTransfer? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
ClipboardEventInit {\n val o = js(\"({})\")\n o[\"clipboardData\"] = clipboardData\n o[\"bubbles\"] = bubbles\n
o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[ClipboardEvent](https://developer.mozilla.org/en/docs/Web/API/ClipboardEvent) to Kotlin\n */\n\npublic external
open class ClipboardEvent(type: String, eventInitDict: ClipboardEventInit = definedExternally) : Event {\n open
val clipboardData: DataTransfer?\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
}\n}\n\n/**\n * Exposes the JavaScript [Clipboard](https://developer.mozilla.org/en/docs/Web/API/Clipboard) to
Kotlin\n */\n\npublic external abstract class Clipboard : EventTarget {\n fun read(): Promise<DataTransfer>\n fun
readText(): Promise<String>\n fun write(data: DataTransfer): Promise<Unit>\n fun writeText(data: String):
Promise<Unit>\n}\n\npublic external interface ClipboardPermissionDescriptor {\n var allowWithoutGesture:
Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun
ClipboardPermissionDescriptor(allowWithoutGesture: Boolean? = false): ClipboardPermissionDescriptor {\n val
o = js(\"({})\")\n o[\"allowWithoutGesture\"] = allowWithoutGesture\n return o\n}, /*\n * Copyright 2010-
2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-
GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.css\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\n\npublic external abstract class MediaList :
ItemArrayLike<String> {\n open var mediaText: String\n fun appendMedium(medium: String)\n fun
deleteMedium(medium: String)\n override fun item(index: Int):
String?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun MediaList.get(index: Int):
String? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[StyleSheet](https://developer.mozilla.org/en/docs/Web/API/StyleSheet) to Kotlin\n */\n\npublic external abstract
class StyleSheet {\n open val type: String\n open val href: String?\n open val ownerNode:
UnionElementOrProcessingInstruction?\n open val parentStyleSheet: StyleSheet?\n open val title: String?\n
open val media: MediaList\n open var disabled: Boolean\n}\n\n/**\n * Exposes the JavaScript
[CSSStyleSheet](https://developer.mozilla.org/en/docs/Web/API/CSSStyleSheet) to Kotlin\n */\n\npublic external
abstract class CSSStyleSheet : StyleSheet {\n open val ownerRule: CSSRule?\n open val cssRules:
CSSRuleList\n fun insertRule(rule: String, index: Int): Int\n fun deleteRule(index: Int)\n}\n\n/**\n * Exposes the
JavaScript [StyleSheetList](https://developer.mozilla.org/en/docs/Web/API/StyleSheetList) to Kotlin\n */\n\npublic
external abstract class StyleSheetList : ItemArrayLike<StyleSheet> {\n override fun item(index: Int):
StyleSheet?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun StyleSheetList.get(index: Int):
StyleSheet? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[LinkStyle](https://developer.mozilla.org/en/docs/Web/API/LinkStyle) to Kotlin\n */\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 */\n\npublic external abstract
class CSSRuleList : ItemArrayLike<CSSRule> {\n override fun item(index: Int):
CSSRule?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun CSSRuleList.get(index: Int):
CSSRule? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[CSSRule](https://developer.mozilla.org/en/docs/Web/API/CSSRule) to Kotlin\n */\n\npublic external abstract class
CSSRule {\n open val type: Short\n open var cssText: String\n open val parentRule: CSSRule?\n open val

```



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

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var pageBreakInside: String\n open var perspective: String\n open var perspectiveOrigin: String\n open var
phonemes: String\n open var position: String\n open var quotes: String\n open var resize: String\n open var
rest: String\n open var restAfter: String\n open var restBefore: String\n open var right: String\n open var
tabSize: String\n open var tableLayout: String\n open var textAlign: String\n open var textAlignLast: String\n
open var textCombineUpright: String\n open var textDecoration: String\n open var textDecorationColor:
String\n open var textDecorationLine: String\n open var textDecorationStyle: String\n open var textIndent:
String\n open var textJustify: String\n open var textOrientation: String\n open var textOverflow: String\n
open var textShadow: String\n open var textTransform: String\n open var textUnderlinePosition: String\n open
var top: String\n open var transform: String\n open var transformOrigin: String\n open var transformStyle:
String\n open var transition: String\n open var transitionDelay: String\n open var transitionDuration: String\n
open var transitionProperty: String\n open var transitionTimingFunction: String\n open var unicodeBidi:
String\n open var verticalAlign: String\n open var visibility: String\n open var voiceBalance: String\n open
var voiceDuration: String\n open var voicePitch: String\n open var voicePitchRange: String\n open var
voiceRate: String\n open var voiceStress: String\n open var voiceVolume: String\n open var whiteSpace:
String\n open var widows: String\n open var width: String\n open var wordBreak: String\n open var
wordSpacing: String\n open var wordWrap: String\n open var writingMode: String\n open var zIndex: String\n
open var _dashed_attribute: String\n open var _camel_cased_attribute: String\n open var
_webkit_cased_attribute: String\n fun getPropertyValue(property: String): String\n fun
getPropertyPriority(property: String): String\n fun setProperty(property: String, value: String, priority: String =
definedExternally)\n fun setPropertyValue(property: String, value: String)\n fun setPropertyPriority(property:
String, priority: String)\n fun removeProperty(property: String): String\n override fun item(index: Int):
String\n}\n\n@Suppress("\INVISIBLE_REFERENCE",
\INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
CSSStyleDeclaration.get(index: Int): String? = asDynamic()[index]\n\npublic external interface
ElementCSSInlineStyle {\n val style: CSSStyleDeclaration\n}\n\n/**\n * Exposes the JavaScript
[CSS](https://developer.mozilla.org/en/docs/Web/API/CSS) to Kotlin\n */\n\npublic external abstract class CSS {\n
companion object {\n fun escape(ident: String): String\n }\n}\n\npublic external interface
UnionElementOrProcessingInstruction, "/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See
github.com/kotlin/dukat for details\n\npackage org.w3c.dom.encryptedmedia\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\n/**\n * Exposes the JavaScript
[MediaKeySystemConfiguration](https://developer.mozilla.org/en/docs/Web/API/MediaKeySystemConfiguration)
to Kotlin\n */\n\npublic external interface MediaKeySystemConfiguration {\n var label: String? /* = "" */\n
get() = definedExternally\n set(value) = definedExternally\n var initDataTypes: Array<String>? /* = arrayOf()
*/\n
get() = definedExternally\n set(value) = definedExternally\n var audioCapabilities:
Array<MediaKeySystemMediaCapability>? /* = arrayOf() */\n
get() = definedExternally\n set(value) =
definedExternally\n var videoCapabilities: Array<MediaKeySystemMediaCapability>? /* = arrayOf() */\n
get() = definedExternally\n set(value) = definedExternally\n var distinctiveIdentifier:
MediaKeysRequirement? /* = MediaKeysRequirement.OPTIONAL */\n
get() = definedExternally\n
set(value) = definedExternally\n var persistentState: MediaKeysRequirement? /* =
MediaKeysRequirement.OPTIONAL */\n
get() = definedExternally\n set(value) = definedExternally\n
var sessionTypes: Array<String>?\n
get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("\INVISIBLE_REFERENCE",
\INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaKeySystemConfiguration(label:
String? = "", initDataTypes: Array<String>? = arrayOf(), audioCapabilities:
Array<MediaKeySystemMediaCapability>? = arrayOf(), videoCapabilities:
Array<MediaKeySystemMediaCapability>? = arrayOf(), distinctiveIdentifier: MediaKeysRequirement? =

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MediaKeysRequirement.OPTIONAL, persistentState: MediaKeysRequirement? =
MediaKeysRequirement.OPTIONAL, sessionTypes: Array<String>? = undefined): MediaKeySystemConfiguration
{\n val o = js("{}")\n o["label"] = label\n o["initDataTypes"] = initDataTypes\n
o["audioCapabilities"] = audioCapabilities\n o["videoCapabilities"] = videoCapabilities\n
o["distinctiveIdentifier"] = distinctiveIdentifier\n o["persistentState"] = persistentState\n o["sessionTypes"]
= sessionTypes\n return o\n}\n\npublic external interface MediaKeySystemMediaCapability {\n var
contentType: String? /* = "" */\n get() = definedExternally\n set(value) = definedExternally\n var
robustness: String? /* = "" */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
MediaKeySystemMediaCapability(contentType: String? = "", robustness: String? = ""):
MediaKeySystemMediaCapability {\n val o = js("{}")\n o["contentType"] = contentType\n
o["robustness"] = robustness\n return o\n}\n\n/**\n * Exposes the JavaScript
[MediaKeySystemAccess](https://developer.mozilla.org/en/docs/Web/API/MediaKeySystemAccess) to Kotlin\n
*/\n\npublic external abstract class MediaKeySystemAccess {\n open val keySystem: String\n fun
getConfiguration(): MediaKeySystemConfiguration\n fun createMediaKeys(): Promise<MediaKeys>\n}\n\n/**\n
* Exposes the JavaScript [MediaKeys](https://developer.mozilla.org/en/docs/Web/API/MediaKeys) to Kotlin\n
*/\n\npublic external abstract class MediaKeys {\n fun createSession(sessionType: MediaKeySessionType =
definedExternally): MediaKeySession\n fun setServerCertificate(serverCertificate: dynamic):
Promise<Boolean>\n}\n\n/**\n * Exposes the JavaScript
[MediaKeySession](https://developer.mozilla.org/en/docs/Web/API/MediaKeySession) to Kotlin\n
*/\n\npublic external abstract class MediaKeySession : EventTarget {\n open val sessionId: String\n open val expiration:
Double\n open val closed: Promise<Unit>\n open val keyStatuses: MediaKeyStatusMap\n open var
onkeystatuseschange: ((Event) -> dynamic)?\n open var onmessage: ((MessageEvent) -> dynamic)?\n fun
generateRequest(initDataType: String, initData: dynamic): Promise<Unit>\n fun load(sessionId: String):
Promise<Boolean>\n fun update(response: dynamic): Promise<Unit>\n fun close(): Promise<Unit>\n fun
remove(): Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript
[MediaKeyStatusMap](https://developer.mozilla.org/en/docs/Web/API/MediaKeyStatusMap) to Kotlin\n
*/\n\npublic external abstract class MediaKeyStatusMap {\n open val size: Int\n fun has(keyId: dynamic): Boolean\n fun
get(keyId: dynamic): Any?\n}\n\n/**\n * Exposes the JavaScript
[MediaKeyMessageEvent](https://developer.mozilla.org/en/docs/Web/API/MediaKeyMessageEvent) to Kotlin\n
*/\n\npublic external open class MediaKeyMessageEvent(type: String, eventInitDict: MediaKeyMessageEventInit) :
Event {\n open val messageType: MediaKeyMessageType\n open val message: ArrayBuffer\n\n companion
object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n}\n\npublic external interface MediaKeyMessageEventInit : EventInit {\n var
messageType: MediaKeyMessageType?\n var message:
ArrayBuffer?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun
MediaKeyMessageEventInit(messageType: MediaKeyMessageType?, message: ArrayBuffer?, bubbles: Boolean? =
false, cancelable: Boolean? = false, composed: Boolean? = false): MediaKeyMessageEventInit {\n val o =
js("{}")\n o["messageType"] = messageType\n o["message"] = message\n o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\npublic external open class
MediaEncryptedEvent(type: String, eventInitDict: MediaEncryptedEventInit = definedExternally) : Event {\n
open val initDataType: String\n open val initData: ArrayBuffer?\n\n companion object {\n val NONE:
Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE:
Short\n }\n}\n\npublic external interface MediaEncryptedEventInit : EventInit {\n var initDataType: String? /* =
"" */\n get() = definedExternally\n set(value) = definedExternally\n var initData: ArrayBuffer? /* = null
*/\n get() = definedExternally\n set(value) =

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definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun
MediaEncryptedEventInit(initDataType: String? = \"\", initData: ArrayBuffer? = null, bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): MediaEncryptedEventInit {\n val o = js(\"({})\")\n
o[\"initDataType\"] = initDataType\n o[\"initData\"] = initData\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"]
= cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface MediaKeysRequirement {\n companion object\n}\n\npublic inline val
MediaKeysRequirement.Companion.REQUIRED: MediaKeysRequirement get() =
\"required\".asDynamic().unsafeCast<MediaKeysRequirement>()\n\npublic inline val
MediaKeysRequirement.Companion.OPTIONAL: MediaKeysRequirement get() =
\"optional\".asDynamic().unsafeCast<MediaKeysRequirement>()\n\npublic inline val
MediaKeysRequirement.Companion.NOT_ALLOWED: MediaKeysRequirement get() = \"not-
allowed\".asDynamic().unsafeCast<MediaKeysRequirement>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface MediaKeySessionType {\n companion object\n}\n\npublic inline val
MediaKeySessionType.Companion.TEMPORARY: MediaKeySessionType get() =
\"temporary\".asDynamic().unsafeCast<MediaKeySessionType>()\n\npublic inline val
MediaKeySessionType.Companion.PERSISTENT_LICENSE: MediaKeySessionType get() = \"persistent-
license\".asDynamic().unsafeCast<MediaKeySessionType>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface MediaKeyStatus {\n companion object\n}\n\npublic inline val MediaKeyStatus.Companion.USABLE:
MediaKeyStatus get() = \"usable\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.EXPIRED: MediaKeyStatus get() =
\"expired\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.RELEASED: MediaKeyStatus get() =
\"released\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.OUTPUT_RESTRICTED: MediaKeyStatus get() = \"output-
restricted\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.OUTPUT_DOWNSCALED: MediaKeyStatus get() = \"output-
downscaled\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.STATUS_PENDING: MediaKeyStatus get() = \"status-
pending\".asDynamic().unsafeCast<MediaKeyStatus>()\n\npublic inline val
MediaKeyStatus.Companion.INTERNAL_ERROR: MediaKeyStatus get() = \"internal-
error\".asDynamic().unsafeCast<MediaKeyStatus>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external
interface MediaKeyMessageType {\n companion object\n}\n\npublic inline val
MediaKeyMessageType.Companion.LICENSE_REQUEST: MediaKeyMessageType get() = \"license-
request\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val
MediaKeyMessageType.Companion.LICENSE_RENEWAL: MediaKeyMessageType get() = \"license-
renewal\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val
MediaKeyMessageType.Companion.LICENSE_RELEASE: MediaKeyMessageType get() = \"license-
release\".asDynamic().unsafeCast<MediaKeyMessageType>()\n\npublic inline val
MediaKeyMessageType.Companion.INDIVIDUALIZATION_REQUEST: MediaKeyMessageType get() =
\"individualization-request\".asDynamic().unsafeCast<MediaKeyMessageType>()\", /*\n * Copyright 2010-2021
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-
GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage

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org.w3c.dom.events\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\n\n/**\n * Exposes
the JavaScript [UIEvent](https://developer.mozilla.org/en/docs/Web/API/UIEvent) to Kotlin\n *\npublic external
open class UIEvent(type: String, eventInitDict: UIEventInit = definedExternally) : Event {\n open val view:
Window?\n open val detail: Int?\n\n companion object {\n val NONE: Short?\n val
CAPTURING_PHASE: Short?\n val AT_TARGET: Short?\n val BUBBLING_PHASE: Short?\n
}\n}\n\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@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\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@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\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() =
definedExternally\n set(value) = definedExternally\n var buttons: Short? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var relatedTarget: EventTarget? /* = null */\n get()
= definedExternally\n set(value) = definedExternally\n var region: String? /* = null */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MouseEventInit(screenX: Int? = 0,
screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget:
EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean?
= false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false,
modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false,
modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false,
modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0,

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bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MouseEventInit {\n val o =
js("{}")\n o["screenX"] = screenX\n o["screenY"] = screenY\n o["clientX"] = clientX\n o["clientY"]
= clientY\n o["button"] = button\n o["buttons"] = buttons\n o["relatedTarget"] = relatedTarget\n
o["region"] = region\n o["ctrlKey"] = ctrlKey\n o["shiftKey"] = shiftKey\n o["altKey"] = altKey\n
o["metaKey"] = metaKey\n o["modifierAltGraph"] = modifierAltGraph\n o["modifierCapsLock"] =
modifierCapsLock\n o["modifierFn"] = modifierFn\n o["modifierFnLock"] = modifierFnLock\n
o["modifierHyper"] = modifierHyper\n o["modifierNumLock"] = modifierNumLock\n
o["modifierScrollLock"] = modifierScrollLock\n o["modifierSuper"] = modifierSuper\n
o["modifierSymbol"] = modifierSymbol\n o["modifierSymbolLock"] = modifierSymbolLock\n o["view"] =
view\n o["detail"] = detail\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] =
composed\n return o\n}\n\npublic external interface EventModifierInit : UIEventInit {\n var ctrlKey: Boolean?
/* = false */\n get() = definedExternally\n set(value) = definedExternally\n var shiftKey: Boolean? /* =
false */\n get() = definedExternally\n set(value) = definedExternally\n var altKey: Boolean? /* = false
/\n get() = definedExternally\n set(value) = definedExternally\n var metaKey: Boolean? / = false */\n
get() = definedExternally\n set(value) = definedExternally\n var modifierAltGraph: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n var modifierCapsLock: Boolean? /* = false
/\n get() = definedExternally\n set(value) = definedExternally\n var modifierFn: Boolean? / = false */\n
get() = definedExternally\n set(value) = definedExternally\n var modifierFnLock: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n var modifierHyper: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n var modifierNumLock: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n var modifierScrollLock: Boolean? /* = false
/\n get() = definedExternally\n set(value) = definedExternally\n var modifierSuper: Boolean? / = false
/\n get() = definedExternally\n set(value) = definedExternally\n var modifierSymbol: Boolean? / = false
/\n get() = definedExternally\n set(value) = definedExternally\n var modifierSymbolLock: Boolean? / =
false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun EventModifierInit(ctrlKey: Boolean? =
false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph:
Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? =
false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): EventModifierInit {\n val o = js("{}")\n o["ctrlKey"] = ctrlKey\n o["shiftKey"] = shiftKey\n
o["altKey"] = altKey\n o["metaKey"] = metaKey\n o["modifierAltGraph"] = modifierAltGraph\n
o["modifierCapsLock"] = modifierCapsLock\n o["modifierFn"] = modifierFn\n o["modifierFnLock"] =
modifierFnLock\n o["modifierHyper"] = modifierHyper\n o["modifierNumLock"] = modifierNumLock\n
o["modifierScrollLock"] = modifierScrollLock\n o["modifierSuper"] = modifierSuper\n
o["modifierSymbol"] = modifierSymbol\n o["modifierSymbolLock"] = modifierSymbolLock\n o["view"] =
view\n o["detail"] = detail\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] =
composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[WheelEvent](https://developer.mozilla.org/en/docs/Web/API/WheelEvent) to Kotlin\n */\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) =

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definedExternally\n var deltaZ: Double? /* = 0.0 */\n get() = definedExternally\n set(value) =
definedExternally\n var deltaMode: Int? /* = 0 */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun WheelEventInit(deltaX: Double? = 0.0,
deltaY: Double? = 0.0, deltaZ: Double? = 0.0, deltaMode: Int? = 0, screenX: Int? = 0, screenY: Int? = 0, clientX:
Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region:
String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean?
= false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false,
modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false,
modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false,
modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): WheelEventInit {\n val o = js(\"({})\")\n o[\"deltaX\"] = deltaX\n o[\"deltaY\"] = deltaY\n o[\"deltaZ\"] = deltaZ\n o[\"deltaMode\"] = deltaMode\n o[\"screenX\"] = screenX\n o[\"screenY\"] = screenY\n o[\"clientX\"] = clientX\n o[\"clientY\"] = clientY\n o[\"button\"] = button\n o[\"buttons\"] = buttons\n o[\"relatedTarget\"] = relatedTarget\n o[\"region\"] =
region\n o[\"ctrlKey\"] = ctrlKey\n o[\"shiftKey\"] = shiftKey\n o[\"altKey\"] = altKey\n o[\"metaKey\"] =
metaKey\n o[\"modifierAltGraph\"] = modifierAltGraph\n o[\"modifierCapsLock\"] = modifierCapsLock\n o[\"modifierFn\"] = modifierFn\n o[\"modifierFnLock\"] = modifierFnLock\n o[\"modifierHyper\"] =
modifierHyper\n o[\"modifierNumLock\"] = modifierNumLock\n o[\"modifierScrollLock\"] =
modifierScrollLock\n o[\"modifierSuper\"] = modifierSuper\n o[\"modifierSymbol\"] = modifierSymbol\n o[\"modifierSymbolLock\"] = modifierSymbolLock\n o[\"view\"] = view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return
o\n}\n\n/**\n * Exposes the JavaScript [InputEvent](https://developer.mozilla.org/en/docs/Web/API/InputEvent) to
Kotlin\n */\npublic external open class InputEvent(type: String, eventInitDict: InputEventInit = definedExternally) :
UIEvent {\n open val data: String\n open val isComposing: Boolean\n\n companion object {\n val NONE:
Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE:
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@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun InputEventInit(data: String? = \"\",
isComposing: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable:
Boolean? = false, composed: Boolean? = false): InputEventInit {\n val o = js(\"({})\")\n o[\"data\"] = data\n o[\"isComposing\"] = isComposing\n o[\"view\"] = view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[KeyboardEvent](https://developer.mozilla.org/en/docs/Web/API/KeyboardEvent) to Kotlin\n */\npublic external
open class KeyboardEvent(type: String, eventInitDict: KeyboardEventInit = definedExternally) : UIEvent {\n open val key: String\n open val code: String\n open val location: Int\n open val ctrlKey: Boolean\n open val
shiftKey: Boolean\n open val altKey: Boolean\n open val metaKey: Boolean\n open val repeat: Boolean\n open val isComposing: Boolean\n open val charCode: Int\n open val keyCode: Int\n open val which: Int\n fun getModifierState(keyArg: String): Boolean\n\n companion object {\n val
DOM_KEY_LOCATION_STANDARD: Int\n val DOM_KEY_LOCATION_LEFT: Int\n val
DOM_KEY_LOCATION_RIGHT: Int\n val DOM_KEY_LOCATION_NUMPAD: Int\n val NONE:
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() =

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definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun KeyboardEventInit(key: String? = \"\",
code: String? = \"\", location: Int? = 0, repeat: Boolean? = false, isComposing: Boolean? = false, ctrlKey: Boolean?
= false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph:
Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? =
false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): KeyboardEventInit {\n val o = js(\"({})\")\n o[\"key\"] = key\n o[\"code\"] = code\n o[\"location\"] =
location\n o[\"repeat\"] = repeat\n o[\"isComposing\"] = isComposing\n o[\"ctrlKey\"] = ctrlKey\n
o[\"shiftKey\"] = shiftKey\n o[\"altKey\"] = altKey\n o[\"metaKey\"] = metaKey\n o[\"modifierAltGraph\"] =
modifierAltGraph\n o[\"modifierCapsLock\"] = modifierCapsLock\n o[\"modifierFn\"] = modifierFn\n
o[\"modifierFnLock\"] = modifierFnLock\n o[\"modifierHyper\"] = modifierHyper\n o[\"modifierNumLock\"] =
modifierNumLock\n o[\"modifierScrollLock\"] = modifierScrollLock\n o[\"modifierSuper\"] = modifierSuper\n
o[\"modifierSymbol\"] = modifierSymbol\n o[\"modifierSymbolLock\"] = modifierSymbolLock\n o[\"view\"] =
view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] =
composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[CompositionEvent](https://developer.mozilla.org/en/docs/Web/API/CompositionEvent) to Kotlin\n *\npublic external open class CompositionEvent(type: String, eventInitDict: CompositionEventInit = definedExternally) :
UIEvent {\n open val data: String\n\n companion object {\n val NONE: 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@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun CompositionEventInit(data: String? =
\", view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): CompositionEventInit {\n val o = js(\"({})\")\n o[\"data\"] = data\n o[\"view\"] = view\n
o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] =
composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[Event](https://developer.mozilla.org/en/docs/Web/API/Event) to Kotlin\n *\npublic external open class
Event(type: String, eventInitDict: EventInit = definedExternally) {\n open val type: String\n open val target:
EventTarget?\n open val currentTarget: EventTarget?\n open val eventPhase: Short\n open val bubbles:
Boolean\n open val cancelable: Boolean\n open val defaultPrevented: Boolean\n open val composed:
Boolean\n open val isTrusted: Boolean\n open val timeStamp: Number\n fun composedPath():
Array<EventTarget>\n fun stopPropagation()\n fun stopImmediatePropagation()\n fun preventDefault()\n
fun initEvent(type: String, bubbles: Boolean, cancelable: Boolean)\n\n companion object {\n val NONE:
Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE:
Short\n }\n}\n\n/**\n * Exposes the JavaScript
[EventTarget](https://developer.mozilla.org/en/docs/Web/API/EventTarget) to Kotlin\n *\npublic external abstract
class EventTarget {\n fun addEventListener(type: String, callback: EventListener?, options: dynamic =
definedExternally)\n fun addEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic =
definedExternally)\n fun removeEventListener(type: String, callback: EventListener?, options: dynamic =
definedExternally)\n fun removeEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic =
definedExternally)\n fun dispatchEvent(event: Event): Boolean\n}\n\n/**\n * Exposes the JavaScript
[EventListener](https://developer.mozilla.org/en/docs/Web/API/EventListener) to Kotlin\n *\npublic external
interface EventListener {\n fun handleEvent(event: Event)\n}\n\n/*\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom\n\nimport kotlin.js.*\nimport

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org.khronos.webgl.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport
org.w3c.dom.encryptedmedia.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport
org.w3c.dom.mediasource.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport
org.w3c.xhr.*\n\npublic external abstract class HTMLAllCollection {\n open val length: Int\n fun
item(nameOrIndex: String = definedExternally): UnionElementOrHTMLCollection?\n fun namedItem(name:
String): UnionElementOrHTMLCollection?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLAllCollection.get(index: Int): Element? =
asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLAllCollection.get(name: String): UnionElementOrHTMLCollection? = asDynamic()[name]\n\n/**\n *
Exposes the JavaScript
[HTMLFormControlsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLFormControlsCollection)
to Kotlin\n * \n\npublic external abstract class HTMLFormControlsCollection : HTMLCollection\n\n/**\n * Exposes
the JavaScript [RadioNodeList](https://developer.mozilla.org/en/docs/Web/API/RadioNodeList) to Kotlin\n
*\n\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
*\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@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun
HTMLOptionsCollection.set(index: Int, option: HTMLOptionElement?) { asDynamic()[index] = option }\n\n/**\n *
Exposes the JavaScript [HTMLElement](https://developer.mozilla.org/en/docs/Web/API/HTMLElement) to
Kotlin\n * \n\npublic external abstract class HTMLElement : Element, GlobalEventHandlers,
DocumentAndElementEventHandlers, ElementContentEditable, ElementCSSInlineStyle {\n open var title:
String\n open var lang: String\n open var translate: Boolean\n open var dir: String\n open val dataset:
DOMStringMap\n open var hidden: Boolean\n open var tabIndex: Int\n open var accessKey: String\n open
val accessKeyLabel: String\n open var draggable: Boolean\n open val dropzone: DOMTokenList\n open var
contextMenu: HTMLMenuElement?\n open var spellcheck: Boolean\n open var innerText: String\n open val
offsetParent: Element?\n open val offsetTop: Int\n open val offsetLeft: Int\n open val offsetWidth: Int\n
open val offsetHeight: Int\n fun click()\n fun focus()\n fun blur()\n fun forceSpellCheck()\n\n companion object
{\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLUnknownElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUnknownElement) to Kotlin\n
*\n\npublic external abstract class HTMLUnknownElement : HTMLElement {\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val

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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 [DOMStringMap](https://developer.mozilla.org/en/docs/Web/API/DOMStringMap) to Kotlin\n \*\npublic external abstract class DOMStringMap\n\n@Suppress("INVISIBLE\_REFERENCE", "INVISIBLE\_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun DOMStringMap.get(name: String): String? = asDynamic()[name]\n\n\n@Suppress("INVISIBLE\_REFERENCE", "INVISIBLE\_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun DOMStringMap.set(name: String, value: String) { asDynamic()[name] = value }n}\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 {\n open var href: String\n open var target: String\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE:

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Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLLinkElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLinkElement) to Kotlin\n */\npublic
external abstract class HTMLLinkElement : HTMLElement, LinkStyle {\n open var href: String\n open var
crossOrigin: String?\n open var rel: String\n open var `as`: RequestDestination\n open val relList:
DOMTokenList\n open var media: String\n open var nonce: String\n open var hreflang: String\n open var
type: String\n open val sizes: DOMTokenList\n open varreferrerPolicy: String\n open var charset: String\n
 open var rev: String\n open var target: String\n open var scope: String\n open var workerType:
WorkerType\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLMetaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMetaElement) to Kotlin\n */\npublic
external abstract class HTMLMetaElement : HTMLElement {\n open var name: String\n open var httpEquiv:
String\n open var content: String\n open var scheme: String\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLStyleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLStyleElement) to Kotlin\n */\npublic
external abstract class HTMLStyleElement : HTMLElement, LinkStyle {\n open var media: String\n open var
nonce: String\n open var type: String\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLBodyElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBodyElement) to Kotlin\n */\npublic

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external abstract class HTMLBodyElement : HTMLInputElement, WindowEventHandlers {
 open var text: String
 open var link: String
 open var vLink: String
 open var aLink: String
 open var bgColor: String
 open var background: String
 companion object {
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
 val DOCUMENT_FRAGMENT_NODE: Short
 val 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 [HTMLHeadingElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadingElement) to Kotlin
*
public external abstract class HTMLHeadingElement : HTMLInputElement {
 open var align: String
 companion object {
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
 val DOCUMENT_FRAGMENT_NODE: Short
 val NOTATION_NODE: Short
 val DOCUMENT_POSITION_DISCONNECTED: Short
 val DOCUMENT_POSITION_PRECEDING: Short
 val DOCUMENT_POSITION_FOLLOWING: Short
 val DOCUMENT_POSITION_CONTAINS: Short
 val DOCUMENT_POSITION_CONTAINED_BY: Short
 }
}

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short }
}

Exposes the JavaScript [HTMLParagraphElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParagraphElement) to Kotlin
*
public external abstract class HTMLParagraphElement : HTMLInputElement {
 open var align: String
 companion object {
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
 val DOCUMENT_FRAGMENT_NODE: Short
 val NOTATION_NODE: Short
 val DOCUMENT_POSITION_DISCONNECTED: Short
 val DOCUMENT_POSITION_PRECEDING: Short
 val DOCUMENT_POSITION_FOLLOWING: Short
 val DOCUMENT_POSITION_CONTAINS: Short
 val DOCUMENT_POSITION_CONTAINED_BY: Short
 }
}

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short }
}

Exposes the JavaScript [HTMLHRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHRElement) to Kotlin
*
public external abstract class HTMLHRElement : HTMLInputElement {
 open var align: String
 open var color: String
 open var noShade: Boolean
 open var size: String
 open var width: String
 companion object {
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
 val DOCUMENT_FRAGMENT_NODE: Short
 val NOTATION_NODE: Short
 val DOCUMENT_POSITION_DISCONNECTED: Short
 val DOCUMENT_POSITION_PRECEDING: Short
 val DOCUMENT_POSITION_FOLLOWING: Short
 val DOCUMENT_POSITION_CONTAINS: Short
 val DOCUMENT_POSITION_CONTAINED_BY: Short
 }
}

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short }
}

Exposes the JavaScript [HTMLPreElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPreElement) to Kotlin
*
public external abstract class HTMLPreElement : HTMLInputElement {
 open var width: Int
 companion object {

```



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COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
 val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLDListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDListElement) to Kotlin \n * \n public
external abstract class HTMLDListElement : HTMLElement { \n open var compact: Boolean \n \n companion
object { \n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE:
Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLDivElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDivElement) to Kotlin \n * \n public
external abstract class HTMLDivElement : HTMLElement { \n open var align: String \n \n companion object { \n
 val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLAnchorElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAnchorElement) to Kotlin \n
* \n public external abstract class HTMLAnchorElement : HTMLElement, HTMLHyperlinkElementUtils { \n open
var target: String \n open var download: String \n open var ping: String \n open var rel: String \n open val
relList: DOMTokenList \n open var hreflang: String \n open var type: String \n open var text: String \n open
var referrerPolicy: String \n open var coords: String \n open var charset: String \n open var name: String \n
 open var rev: String \n open var shape: String \n \n companion object { \n val ELEMENT_NODE: Short\n
 val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n
 val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[HTMLDataElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataElement) to Kotlin \n * \n public
external abstract class HTMLDataElement : HTMLElement { \n open var value: String \n \n companion object { \n
 val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val

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DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val  
DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val  
DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n  
val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n  
val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val  
DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n } \n \n /\*\* \n \* Exposes the JavaScript  
[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  
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

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PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLPictureElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPictureElement) to Kotlin\n
*/\npublic external abstract class HTMLPictureElement : HTMLInputElement {\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLSourceElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSourceElement) to Kotlin\n
*/\npublic external abstract class HTMLSourceElement : HTMLInputElement {\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 : HTMLInputElement, HTMLORSVGImageElement,
TexImageSource {\n open var alt: String\n open var src: String\n open var srcset: String\n open var sizes:
String\n open var crossOrigin: String?\n open var useMap: String\n open var isMap: Boolean\n open var
width: Int\n open var height: Int\n open val naturalWidth: Int\n open val naturalHeight: Int\n open val
complete: Boolean\n open val currentSrc: String\n open var referrerPolicy: String\n open var name: String\n
open var lowsrc: String\n open var align: String\n open var hspace: Int\n open var vspace: Int\n open var
longDesc: String\n open var border: String\n open val x: Int\n open val y: Int\n\n companion object {\n
 val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLIFrameElement](https://developer.mozilla.org/en/docs/Web/API/HTMLIFrameElement) to Kotlin\n

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*\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 */\n\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 */\n\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 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 */

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PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLMediaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMediaElement) to Kotlin\n
*\n\npublic external abstract class HTMLMediaElement : HTMLMediaElement {\n open val error: MediaError?\n open
var src: String\n open var srcObject: MediaProvider?\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 open val mediaKeys: MediaKeys?\n
open var onencrypted: ((Event) -> dynamic)?\n open var onwaitingforkey: ((Event) -> dynamic)?\n fun load()\n
fun canPlayType(type: String): CanPlayTypeResult\n fun fastSeek(time: Double)\n fun getStartDate():
dynamic\n fun play(): Promise<Unit>\n fun pause()\n fun addTextTrack(kind: TextTrackKind, label: String =
definedExternally, language: String = definedExternally): TextTrack\n fun setMediaKeys(mediaKeys:
MediaKeys?): Promise<Unit>\n\n companion object {\n val NETWORK_EMPTY: Short\n val
NETWORK_IDLE: Short\n val NETWORK_LOADING: Short\n val NETWORK_NO_SOURCE: Short\n
 val HAVE_NOTHING: Short\n val HAVE_METADATA: Short\n val HAVE_CURRENT_DATA:
Short\n val HAVE_FUTURE_DATA: Short\n val HAVE_ENOUGH_DATA: Short\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[MediaError](https://developer.mozilla.org/en/docs/Web/API/MediaError) to Kotlin\n
*\n\npublic external abstract
class MediaError {\n open val code: Short\n\n companion object {\n val MEDIA_ERR_ABORTED: Short\n
 val MEDIA_ERR_NETWORK: Short\n val MEDIA_ERR_DECODE: Short\n val
MEDIA_ERR_SRC_NOT_SUPPORTED: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[AudioTrackList](https://developer.mozilla.org/en/docs/Web/API/AudioTrackList) to Kotlin\n
*\n\npublic external
abstract class AudioTrackList : EventTarget {\n open val length: Int\n open var onchange: ((Event) ->
dynamic)?\n open var onaddtrack: ((TrackEvent) -> dynamic)?\n open var onremovetrack: ((TrackEvent) ->
dynamic)?\n fun getTrackById(id: String): AudioTrack?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\n\npublic inline operator fun AudioTrackList.get(index:
Int): AudioTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[AudioTrack](https://developer.mozilla.org/en/docs/Web/API/AudioTrack) to Kotlin\n
*\n\npublic external abstract
class AudioTrack : UnionAudioTrackOrTextTrackOrVideoTrack {\n open val id: String\n open val kind:
String\n open val label: String\n open val language: String\n open var enabled: Boolean\n open val
sourceBuffer: SourceBuffer?\n}\n\n/**\n * Exposes the JavaScript

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[VideoTrackList](https://developer.mozilla.org/en/docs/Web/API/VideoTrackList) to Kotlin\n *\npublic external
abstract class VideoTrackList : EventTarget {\n open val length: Int\n open val selectedIndex: Int\n open var
onchange: ((Event) -> dynamic)?\n open var onaddtrack: ((TrackEvent) -> dynamic)?\n open var
onremovetrack: ((TrackEvent) -> dynamic)?\n fun getTrackById(id: String):
VideoTrack?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun VideoTrackList.get(index:
Int): VideoTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[VideoTrack](https://developer.mozilla.org/en/docs/Web/API/VideoTrack) to Kotlin\n *\npublic external abstract
class VideoTrack : UnionAudioTrackOrTextTrackOrVideoTrack {\n open val id: String\n open val kind:
String\n open val label: String\n open val language: String\n open var selected: Boolean\n open val
sourceBuffer: SourceBuffer?\n}\n\npublic external abstract class TextTrackList : EventTarget {\n open val length:
Int\n open var onchange: ((Event) -> dynamic)?\n open var onaddtrack: ((TrackEvent) -> dynamic)?\n open
var onremovetrack: ((TrackEvent) -> dynamic)?\n fun getTrackById(id: String):
TextTrack?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun TextTrackList.get(index: Int):
TextTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[TextTrack](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin\n *\npublic external abstract
class TextTrack : EventTarget, UnionAudioTrackOrTextTrackOrVideoTrack {\n open val kind: TextTrackKind\n
open val label: String\n open val language: String\n open val id: String\n open val
inBandMetadataTrackDispatchType: String\n open var mode: TextTrackMode\n open val cues:
TextTrackCueList?\n open val activeCues: TextTrackCueList?\n open var oncuechange: ((Event) ->
dynamic)?\n open val sourceBuffer: SourceBuffer?\n fun addCue(cue: TextTrackCue)\n fun removeCue(cue:
TextTrackCue)\n}\n\npublic external abstract class TextTrackCueList {\n open val length: Int\n fun
getCueById(id: String): TextTrackCue?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun TextTrackCueList.get(index:
Int): TextTrackCue? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[TextTrackCue](https://developer.mozilla.org/en/docs/Web/API/TextTrackCue) to Kotlin\n *\npublic external
abstract class TextTrackCue : EventTarget {\n open val track: TextTrack?\n open var id: String\n open var
startTime: Double\n open var endTime: Double\n open var pauseOnExit: Boolean\n open var onenter: ((Event)
-> dynamic)?\n open var onexit: ((Event) -> dynamic)?\n}\n\n/**\n * Exposes the JavaScript
[TimeRanges](https://developer.mozilla.org/en/docs/Web/API/TimeRanges) to Kotlin\n *\npublic external abstract
class TimeRanges {\n open val length: Int\n fun start(index: Int): Double\n fun end(index: Int):
Double\n}\n\n/**\n * Exposes the JavaScript
[TrackEvent](https://developer.mozilla.org/en/docs/Web/API/TrackEvent) to Kotlin\n *\npublic external open class
TrackEvent(type: String, eventInitDict: TrackEventInit = definedExternally) : Event {\n open val track:
UnionAudioTrackOrTextTrackOrVideoTrack?\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface TrackEventInit : EventInit {\n var track:
UnionAudioTrackOrTextTrackOrVideoTrack? /* = null */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun TrackEventInit(track:
UnionAudioTrackOrTextTrackOrVideoTrack? = null, bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): TrackEventInit {\n val o = js(\"({})\")\n o[\"track\"] = track\n o[\"bubbles\"] =
bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the
JavaScript [HTMLMapElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMapElement) to Kotlin\n
*\npublic external abstract class HTMLMapElement : 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

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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
[HTMLAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAreaElement) to Kotlin \n * \n public
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 * \n public
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 * \n public 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

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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 [HTMLTableColElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableColElement) to Kotlin\n \*\npublic external abstract class HTMLTableColElement : HTMLElement {\n open var span: Int\n open var align: String\n open var ch: String\n open var chOff: String\n open var vAlign: String\n open var width: String\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val

DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement) to Kotlin\n \*\npublic external abstract class HTMLTableSectionElement : HTMLElement {\n open val rows: HTMLCollection\n open var align: String\n open var ch: String\n open var chOff: String\n open var vAlign: String\n fun insertRow(index: Int = definedExternally): HTMLElement\n fun deleteRow(index: Int)\n\n companion object {\n val ELEMENT\_NODE: Short\n val ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val

DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val

DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n }n}\n\n/\*\*\n \* Exposes the JavaScript [HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement) to Kotlin\n \*\npublic external abstract class HTMLTableRowElement : HTMLElement {\n open val rowIndex: Int\n open val sectionRowIndex: Int\n open val cells: HTMLCollection\n open var align: String\n open var ch: String\n open var chOff: String\n open var vAlign: String\n open var bgColor: String\n fun insertCell(index: Int = definedExternally): HTMLElement\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 : HTMLElement {\n open var colSpan: Int\n open var rowSpan: Int\n open var headers: String\n open val cellIndex: Int\n open var scope: String\n open var abbr: String\n open var align: String\n open var axis: String\n open var height: String\n open var width: String\n open var ch: String\n open var chOff: String\n open var noWrap: Boolean\n open var vAlign: String\n open

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var bgColor: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n}\n}\n\n/**\n * Exposes the JavaScript [HTMLFormElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFormElement) to Kotlin\n */\n\npublic external abstract class HTMLFormElement : HTMLInputElement {\n open var acceptCharset: String\n open var action: String\n open var autocomplete: String\n open var enctype: String\n open var encoding: String\n open var method: String\n open var name: String\n open var noValidate: Boolean\n open var target: String\n open val elements: HTMLFormControlsCollection\n open val length: Int\n fun submit()\n fun reset()\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLFormElement.get(index: Int): Element? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLFormElement.get(name: String): UnionElementOrRadioNodeList? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript [HTMLLabelElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLabelElement) to Kotlin\n */\n\npublic external abstract class HTMLLabelElement : HTMLInputElement {\n open val form: HTMLFormElement?\n open var htmlFor: String\n open val control: HTMLInputElement?\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 */\n\npublic external abstract class HTMLInputElement : HTMLInputElement {\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:

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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:
HTMLElement?\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
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
*\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
*\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

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val labels: NodeList\n fun namedItem(name: String): HTMLOptionElement?\n fun add(element:
UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally)\n fun
remove(index: Int)\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun
setCustomValidity(error: String)\n override fun item(index: Int): Element?\n\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n
}\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun
HTMLSelectElement.get(index: Int): Element? =
asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\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
*/\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
*/\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
*/\n\npublic external abstract class HTMLOptionElement : HTMLInputElement,
UnionHTMLOptGroupElementOrHTMLOptionElement {\n open var disabled: Boolean\n open var form:
HTMLFormElement?\n open var label: String\n open var defaultSelected: Boolean\n open var selected:

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*\npublic external abstract class HTMLOutputElement : HTMLInputElement {\n open val htmlFor: DOMTokenList\n open val form: HTMLFormElement?\n open var name: String\n open val type: String\n open var\n defaultValue: String\n open var value: String\n open val willValidate: Boolean\n open val validity:\n ValidityState\n open val validationMessage: String\n open val labels: NodeList\n fun checkValidity():\n 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\n CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:\n Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val\n DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val\n DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val\n DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val\n DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val\n DOCUMENT_POSITION_CONTAINED_BY: Short\n val\n DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript\n [HTMLProgressElement](https://developer.mozilla.org/en/docs/Web/API/HTMLProgressElement) to Kotlin\n */\n*\npublic external abstract class HTMLProgressElement : HTMLInputElement {\n open var value: Double\n open\n var max: Double\n open val position: Double\n open val labels: NodeList\n\n companion object {\n val\n ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val\n CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:\n Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val\n DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val\n DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val\n DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val\n DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val\n DOCUMENT_POSITION_CONTAINED_BY: Short\n val\n DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript\n [HTMLMeterElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMeterElement) to Kotlin\n */\n*\npublic external abstract class HTMLMeterElement : HTMLInputElement {\n open var value: Double\n open var min:\n Double\n open var max: Double\n open var low: Double\n open var high: Double\n open var optimum:\n Double\n open val labels: NodeList\n\n companion object {\n val\n ELEMENT_NODE: Short\n val\n ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val\n ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val\n PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val\n DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val\n DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val\n DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val\n DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val\n DOCUMENT_POSITION_CONTAINED_BY: Short\n val\n DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript\n [HTMLFieldSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFieldSetElement) to Kotlin\n */\n*\npublic external abstract class HTMLFieldSetElement : HTMLInputElement {\n open var disabled: Boolean\n open\n val form: HTMLFormElement?\n open var name: String\n open val type: String\n open val elements:\n HTMLCollection\n open val willValidate: Boolean\n open val validity: ValidityState\n open val\n validationMessage: String\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun\n setCustomValidity(error: String)\n\n companion object {\n val\n ELEMENT_NODE: Short\n val\n ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val\n ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val\n PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val\n }\n}

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DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLLegendElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLegendElement) to Kotlin\n
*\npublic external abstract class HTMLLegendElement : HTMLElement {\n open val form:
HTMLFormElement?\n open var align: String\n\n companion object {\n val ELEMENT_NODE: Short\n
 val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n
 val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[ValidityState](https://developer.mozilla.org/en/docs/Web/API/ValidityState) to Kotlin\n *\npublic external
abstract class ValidityState {\n open val valueMissing: Boolean\n open val typeMismatch: Boolean\n open val
patternMismatch: Boolean\n open val tooLong: Boolean\n open val tooShort: Boolean\n open val
rangeUnderflow: Boolean\n open val rangeOverflow: Boolean\n open val stepMismatch: Boolean\n open val
badInput: Boolean\n open val customError: Boolean\n open val valid: Boolean\n}\n}\n\n/**\n * Exposes the
JavaScript [HTMLDetailsElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDetailsElement) to
Kotlin\n *\npublic external abstract class HTMLDetailsElement : HTMLElement {\n open var open: Boolean\n\n
 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

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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\npublic external open class
RelatedEvent(type: String, eventInitDict: RelatedEventInit = definedExternally) : Event {\n open val
relatedTarget: EventTarget?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE:
Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface
RelatedEventInit : EventInit {\n var relatedTarget: EventTarget? /* = null */\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\n\npublic inline fun RelatedEventInit(relatedTarget:
EventTarget? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
RelatedEventInit {\n val o = js("{}")\n o["relatedTarget"] = relatedTarget\n o["bubbles"] = bubbles\n
o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[HTMLDialogElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDialogElement) to Kotlin\n
*/\n\npublic external abstract class HTMLDialogElement : HTMLInputElement {\n open var open: Boolean\n open var
returnValue: String\n fun show(anchor: UnionElementOrMouseEvent = definedExternally)\n fun
showModal(anchor: UnionElementOrMouseEvent = definedExternally)\n fun close(returnValue: String =
definedExternally)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLScriptElement](https://developer.mozilla.org/en/docs/Web/API/HTMLScriptElement) to Kotlin\n
*/\n\npublic external abstract class HTMLScriptElement : HTMLInputElement, HTMLOrSVGScriptElement {\n open var src:
String\n open var type: String\n open var charset: String\n open var async: Boolean\n open var defer:
Boolean\n open var crossOrigin: String?\n open var text: String\n open var nonce: String\n open var event:
String\n open var htmlFor: String\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTemplateElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTemplateElement) to Kotlin\n
*/\n\npublic external abstract class HTMLTemplateElement : HTMLInputElement {\n open val content:
DocumentFragment\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:

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Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n\n/**\n * Exposes the JavaScript
[HTMLSlotElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSlotElement) to Kotlin\n */\npublic
external abstract class HTMLSlotElement : HTMLElement {\n open var name: String\n fun
assignedNodes(options: AssignedNodesOptions = definedExternally): Array<Node>\n\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n\npublic external interface
AssignedNodesOptions {\n var flatten: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun AssignedNodesOptions(flatten:
Boolean? = false): AssignedNodesOptions {\n val o = js(\"({})\")\n o[\"flatten\"] = flatten\n return
o\n}\n\n/**\n * Exposes the JavaScript
[HTMLCanvasElement](https://developer.mozilla.org/en/docs/Web/API/HTMLCanvasElement) to Kotlin\n */\npublic
external abstract class HTMLCanvasElement : 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@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\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,

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CanvasCompositing, CanvasImageSmoothing, CanvasFillStrokeStyles, CanvasShadowStyles, CanvasFilters,
CanvasRect, CanvasDrawPath, CanvasUserInterface, CanvasText, CanvasDrawImage, CanvasHitRegion,
CanvasImageData, CanvasPathDrawingStyles, CanvasTextDrawingStyles, CanvasPath, RenderingContext {
open val canvas: HTMLCanvasElement
}
public external interface CanvasState {
fun save()
fun restore()
}
public external interface CanvasTransform {
fun scale(x: Double, y: Double)
fun rotate(angle: Double)
fun translate(x: Double, y: Double)
fun transform(a: Double, b: Double, c: Double, d: Double, e: Double, f: Double)
fun getTransform(): DOMMatrix
fun setTransform(a: Double, b: Double, c: Double, d: Double, e: Double, f: Double)
fun setTransform(transform: dynamic = definedExternally)
fun resetTransform()
}
public external interface CanvasCompositing {
var globalAlpha: Double
var globalCompositeOperation: String
}
public external interface CanvasImageSmoothing {
var imageSmoothingEnabled: Boolean
var imageSmoothingQuality: ImageSmoothingQuality
}
public external interface CanvasFillStrokeStyles {
var strokeStyle: dynamic
get() = definedExternally
set(value) = definedExternally
var fillStyle: dynamic
get() = definedExternally
set(value) = definedExternally
fun createLinearGradient(x0: Double, y0: Double, x1: Double, y1: Double): CanvasGradient
fun createRadialGradient(x0: Double, y0: Double, r0: Double, x1: Double, y1: Double, r1: Double): CanvasGradient
fun createPattern(image: CanvasImageSource, repetition: String): CanvasPattern?
}
public external interface CanvasShadowStyles {
var shadowOffsetX: Double
var shadowOffsetY: Double
var shadowBlur: Double
var shadowColor: String
}
public external interface CanvasFilters {
var filter: String
}
public external interface CanvasRect {
fun clearRect(x: Double, y: Double, w: Double, h: Double)
fun fillRect(x: Double, y: Double, w: Double, h: Double)
fun strokeRect(x: Double, y: Double, w: Double, h: Double)
}
public external interface CanvasDrawPath {
fun beginPath()
fun fill(fillRule: CanvasFillRule = definedExternally)
fun fill(path: Path2D, fillRule: CanvasFillRule = definedExternally)
fun stroke()
fun stroke(path: Path2D)
fun clip(fillRule: CanvasFillRule = definedExternally)
fun clip(path: Path2D, fillRule: CanvasFillRule = definedExternally)
fun resetClip()
fun isPointInPath(x: Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean
fun isPointInPath(path: Path2D, x: Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean
fun isPointInStroke(x: Double, y: Double): Boolean
fun isPointInStroke(path: Path2D, x: Double, y: Double): Boolean
}
public external interface CanvasUserInterface {
fun drawFocusIfNeeded(element: Element)
fun drawFocusIfNeeded(path: Path2D, element: Element)
fun scrollPathIntoView()
fun scrollPathIntoView(path: Path2D)
}
public external interface CanvasText {
fun fillText(text: String, x: Double, y: Double, maxWidth: Double = definedExternally)
fun strokeText(text: String, x: Double, y: Double, maxWidth: Double = definedExternally)
fun measureText(text: String): TextMetrics
}
public external interface CanvasDrawImage {
fun drawImage(image: CanvasImageSource, dx: Double, dy: Double)
fun drawImage(image: CanvasImageSource, dx: Double, dy: Double, dw: Double, dh: Double)
fun drawImage(image: CanvasImageSource, sx: Double, sy: Double, sw: Double, sh: Double, dx: Double, dy: Double, dw: Double, dh: Double)
}
public external interface CanvasHitRegion {
fun addHitRegion(options: HitRegionOptions = definedExternally)
fun removeHitRegion(id: String)
fun clearHitRegions()
}
public external interface CanvasImageData {
fun createImageData(sw: Double, sh: Double): ImageData
fun createImageData(imagedata: ImageData): ImageData
fun getImageData(sx: Double, sy: Double, sw: Double, sh: Double): ImageData
fun putImageData(imagedata: ImageData, dx: Double, dy: Double)
fun putImageData(imagedata: ImageData, dx: Double, dy: Double, dirtyX: Double, dirtyY: Double, dirtyWidth: Double, dirtyHeight: Double)
}
public external interface CanvasPathDrawingStyles {
var lineWidth: Double
var lineCap: CanvasLineCap
var lineJoin: CanvasLineJoin
var miterLimit: Double
var lineDashOffset: Double
fun setLineDash(segments: Array<Double>)
fun getLineDash(): Array<Double>
}
public external interface CanvasTextDrawingStyles {
var font: String
var textAlign: CanvasTextAlign
var textBaseline: CanvasTextBaseline
var direction: CanvasDirection
}
public external interface CanvasPath {
fun closePath()
fun moveTo(x: Double, y: Double)
fun.lineTo(x: Double, y: Double)
fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)
fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)
}

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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 *\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 *\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
*\npublic external abstract class TextMetrics {\n open val width: Double\n open val actualBoundingBoxLeft:
Double\n open val actualBoundingBoxRight: Double\n open val fontBoundingBoxAscent: Double\n open val
fontBoundingBoxDescent: Double\n open val actualBoundingBoxAscent: Double\n open val
actualBoundingBoxDescent: Double\n open val emHeightAscent: Double\n open val emHeightDescent:
Double\n open val hangingBaseline: Double\n open val alphabeticBaseline: Double\n open val
ideographicBaseline: Double\n}\n\npublic external interface HitRegionOptions {\n var path: Path2D? /* = null
\n get() = definedExternally\n set(value) = definedExternally\n var fillRule: CanvasFillRule? / =
CanvasFillRule.NONZERO *\n get() = definedExternally\n set(value) = definedExternally\n var id:
String? /* = \"\" *\n get() = definedExternally\n set(value) = definedExternally\n var parentID: String? /* =
null *\n get() = definedExternally\n set(value) = definedExternally\n var cursor: String? /* = \"inherit\"
\n get() = definedExternally\n set(value) = definedExternally\n var control: Element? / = null *\n
get() = definedExternally\n set(value) = definedExternally\n var label: String? /* = null *\n get() =
definedExternally\n set(value) = definedExternally\n var role: String? /* = null *\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun HitRegionOptions(path: Path2D? =
null, fillRule: CanvasFillRule? = CanvasFillRule.NONZERO, id: String? = \"\", parentID: String? = null, cursor:
String? = \"inherit\", control: Element? = null, label: String? = null, role: String? = null): HitRegionOptions {\n val
o = js(\"({})\")\n o[\"path\"] = path\n o[\"fillRule\"] = fillRule\n o[\"id\"] = id\n o[\"parentID\"] = parentID\n
o[\"cursor\"] = cursor\n o[\"control\"] = control\n o[\"label\"] = label\n o[\"role\"] = role\n return
o\n}\n\n/**\n * Exposes the JavaScript [ImageData](https://developer.mozilla.org/en/docs/Web/API/ImageData) to
Kotlin\n *\npublic external open class ImageData : ImageBitmapSource, TexImageSource {\n constructor(sw:
Int, sh: Int)\n constructor(data: Uint8ClampedArray, sw: Int, sh: Int = definedExternally)\n open val width: Int\n
open val height: Int\n open val data: Uint8ClampedArray\n}\n\n/**\n * Exposes the JavaScript
[Path2D](https://developer.mozilla.org/en/docs/Web/API/Path2D) to Kotlin\n *\npublic external open class
Path2D() : CanvasPath {\n constructor(path: Path2D)\n constructor(paths: Array<Path2D>, fillRule:
CanvasFillRule = definedExternally)\n constructor(d: String)\n fun addPath(path: Path2D, transform: dynamic =
definedExternally)\n override fun closePath()\n override fun moveTo(x: Double, y: Double)\n override fun
lineTo(x: Double, y: Double)\n override fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)\n
override fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)\n
override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)\n override fun arcTo(x1:
Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)\n override fun
rect(x: Double, y: Double, w: Double, h: Double)\n override fun arc(x: Double, y: Double, radius: Double,
startAngle: Double, endAngle: Double, anticlockwise: Boolean /* = definedExternally */)\n override fun ellipse(x:
Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double,
anticlockwise: Boolean /* = definedExternally */)\n}\n\n/**\n * Exposes the JavaScript
[ImageBitmapRenderingContext](https://developer.mozilla.org/en/docs/Web/API/ImageBitmapRenderingContext)
to Kotlin\n *\npublic external abstract class ImageBitmapRenderingContext {\n open val canvas:

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HTMLCanvasElement\n fun transferFromImageBitmap(bitmap: ImageBitmap?)\n}\n\npublic external interface
ImageBitmapRenderingContextSettings {\n var alpha: Boolean? /* = true */\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun
ImageBitmapRenderingContextSettings(alpha: Boolean? = true): ImageBitmapRenderingContextSettings {\n val o
= js("{}")\n o["alpha"] = alpha\n return o\n}\n\n/**\n * Exposes the JavaScript
[CustomElementRegistry](https://developer.mozilla.org/en/docs/Web/API/CustomElementRegistry) to Kotlin\n
*/\npublic external abstract class CustomElementRegistry {\n fun define(name: String, constructor: () -> dynamic,
options: ElementDefinitionOptions = definedExternally)\n fun get(name: String): Any?\n fun
whenDefined(name: String): Promise<Unit>\n}\n\npublic external interface ElementDefinitionOptions {\n var
extends: String?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ElementDefinitionOptions(extends:
String? = undefined): ElementDefinitionOptions {\n val o = js("{}")\n o["extends"] = extends\n return
o\n}\n\npublic external interface ElementContentEditable {\n var contentEditable: String\n val
isContentEditable: Boolean\n}\n\n/**\n * Exposes the JavaScript
[DataTransfer](https://developer.mozilla.org/en/docs/Web/API/DataTransfer) to Kotlin\n */\npublic external
abstract class DataTransfer {\n open var dropEffect: String\n open var effectAllowed: String\n open val items:
DataTransferItemList\n open val types: Array<out String>\n open val files: FileList\n fun
setDragImage(image: Element, x: Int, y: Int)\n fun getData(format: String): String\n fun setData(format: String,
data: String)\n fun clearData(format: String = definedExternally)\n}\n\n/**\n * Exposes the JavaScript
[DataTransferItemList](https://developer.mozilla.org/en/docs/Web/API/DataTransferItemList) to Kotlin\n */\npublic
external abstract class DataTransferItemList {\n open val length: Int\n fun add(data: String, type: String):
DataTransferItem?\n fun add(data: File): DataTransferItem?\n fun remove(index: Int)\n fun
clear()\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun
DataTransferItemList.get(index: Int): DataTransferItem? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[DataTransferItem](https://developer.mozilla.org/en/docs/Web/API/DataTransferItem) to Kotlin\n */\npublic
external abstract class DataTransferItem {\n open val kind: String\n open val type: String\n fun
getAsString(_callback: ((String) -> Unit)?)\n fun getAsFile(): File?\n}\n\n/**\n * Exposes the JavaScript
[DragEvent](https://developer.mozilla.org/en/docs/Web/API/TouchEvent) to Kotlin\n */\npublic external open class
DragEvent(type: String, eventInitDict: DragEventInit = definedExternally) : MouseEvent {\n open val
dataTransfer: DataTransfer?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE:
Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface
DragEventInit : MouseEventInit {\n var dataTransfer: DataTransfer? /* = null */\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun DragEventInit(dataTransfer:
DataTransfer? = null, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0,
buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey:
Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false,
modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false,
modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false,
modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view:
Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): DragEventInit {\n val o = js("{}")\n o["dataTransfer"] = dataTransfer\n o["screenX"] = screenX\n
o["screenY"] = screenY\n o["clientX"] = clientX\n o["clientY"] = clientY\n o["button"] = button\n
o["buttons"] = buttons\n o["relatedTarget"] = relatedTarget\n o["region"] = region\n o["ctrlKey"] =
ctrlKey\n o["shiftKey"] = shiftKey\n o["altKey"] = altKey\n o["metaKey"] = metaKey\n

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o["modifierAltGraph"] = modifierAltGraph\n o["modifierCapsLock"] = modifierCapsLock\n
o["modifierFn"] = modifierFn\n o["modifierFnLock"] = modifierFnLock\n o["modifierHyper"] =
modifierHyper\n o["modifierNumLock"] = modifierNumLock\n o["modifierScrollLock"] =
modifierScrollLock\n o["modifierSuper"] = modifierSuper\n o["modifierSymbol"] = modifierSymbol\n
o["modifierSymbolLock"] = modifierSymbolLock\n o["view"] = view\n o["detail"] = detail\n
o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return
o\n}\n\n/**\n * Exposes the JavaScript [Window](https://developer.mozilla.org/en/docs/Web/API/Window) to
Kotlin\n */\npublic external abstract class Window : EventTarget, GlobalEventHandlers, WindowEventHandlers,
WindowOrWorkerGlobalScope, WindowSessionStorage, WindowLocalStorage, GlobalPerformance,
UnionMessagePortOrWindowProxy {\n open val window: Window\n open val self: Window\n open val
document: Document\n open var name: String\n open val location: Location\n open val history: History\n
open val customElements: CustomElementRegistry\n open val locationbar: BarProp\n open val menubar:
BarProp\n open val personalbar: BarProp\n open val scrollbars: BarProp\n open val statusbar: BarProp\n
open val toolbar: BarProp\n open var status: String\n open val closed: Boolean\n open val frames: Window\n
open val length: Int\n open val top: Window\n open var opener: Any?\n open val parent: Window\n open val
frameElement: Element?\n open val navigator: Navigator\n open val applicationCache: ApplicationCache\n
open val external: External\n open val screen: Screen\n open val innerWidth: Int\n open val innerHeight: Int\n
open val scrollX: Double\n open val pageXOffset: Double\n open val scrollY: Double\n open val
pageYOffset: Double\n open val screenX: Int\n open val screenY: Int\n open val outerWidth: Int\n open val
outerHeight: Int\n open val devicePixelRatio: Double\n fun close()\n fun stop()\n fun focus()\n fun blur()\n
fun open(url: String = definedExternally, target: String = definedExternally, features: String = definedExternally):
Window?\n fun alert()\n fun alert(message: String)\n fun confirm(message: String = definedExternally):
Boolean\n fun prompt(message: String = definedExternally, default: String = definedExternally): String?\n fun
print()\n fun requestAnimationFrame(callback: (Double) -> Unit): Int\n fun cancelAnimationFrame(handle:
Int)\n fun postMessage(message: Any?, targetOrigin: String, transfer: Array<dynamic> = definedExternally)\n
fun captureEvents()\n fun releaseEvents()\n fun matchMedia(query: String): MediaQueryList\n fun moveTo(x:
Int, y: Int)\n fun moveBy(x: Int, y: Int)\n fun resizeTo(x: Int, y: Int)\n fun resizeBy(x: Int, y: Int)\n fun
scroll(options: ScrollToOptions = definedExternally)\n fun scroll(x: Double, y: Double)\n fun scrollTo(options:
ScrollToOptions = definedExternally)\n fun scrollTo(x: Double, y: Double)\n fun scrollBy(options:
ScrollToOptions = definedExternally)\n fun scrollBy(x: Double, y: Double)\n fun getComputedStyle(elt:
Element, pseudoElt: String? = definedExternally):
CSSStyleDeclaration}\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun Window.get(name: String):
dynamic = asDynamic()[name]\n\npublic external abstract class BarProp {\n open val visible: Boolean}\n}\n\n/**\n * Exposes the JavaScript [History](https://developer.mozilla.org/en/docs/Web/API/History) to Kotlin\n */\npublic
external abstract class History {\n open val length: Int\n open var scrollRestoration: ScrollRestoration\n open
val state: Any?\n fun go(delta: Int = definedExternally)\n fun back()\n fun forward()\n fun pushState(data:
Any?, title: String, url: String? = definedExternally)\n fun replaceState(data: Any?, title: String, url: String? =
definedExternally)\n}\n}\n\n/**\n * Exposes the JavaScript
[Location](https://developer.mozilla.org/en/docs/Web/API/Location) to Kotlin\n */\npublic external abstract class
Location {\n open var href: String\n open val origin: String\n open var protocol: String\n open var host:
String\n open var hostname: String\n open var port: String\n open var pathname: String\n open var search:
String\n open var hash: String\n open val ancestorOrigins: Array<out String>\n fun assign(url: String)\n fun
replace(url: String)\n fun reload()\n}\n}\n\n/**\n * Exposes the JavaScript
[PopStateEvent](https://developer.mozilla.org/en/docs/Web/API/PopStateEvent) to Kotlin\n */\npublic external
open class PopStateEvent(type: String, eventInitDict: PopStateEventInit = definedExternally) : Event {\n open val
state: Any?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val
AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface PopStateEventInit

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: EventInit {
 var state: Any? /* = null */
 get() = definedExternally
 set(value) =
definedExternally
}
@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
npublic inline fun PopStateEventInit(state: Any? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PopStateEventInit {
 val o = js("{}")
 o["state"] = state
 o["bubbles"] = bubbles
 o["cancelable"] = cancelable
 o["composed"] = composed
 return o
}
/**
 * Exposes the JavaScript
[HashChangeEvent](https://developer.mozilla.org/en/docs/Web/API/HashChangeEvent) to Kotlin
*/
npublic
external open class HashChangeEvent(type: String, eventInitDict: HashChangeEventInit = definedExternally) :
Event {
 open val oldURL: String
 open val newURL: String
 companion object {
 val NONE: Short
 val CAPTURING_PHASE: Short
 val AT_TARGET: Short
 val BUBBLING_PHASE: Short
 }
}
npublic external interface HashChangeEventInit : EventInit {
 var oldURL: String? /* = "" */
 get() = definedExternally
 set(value) = definedExternally
 var newURL: String? /* = "" */
 get() =
definedExternally
 set(value) = definedExternally
}
@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
npublic inline fun HashChangeEventInit(oldURL:
String? = "", newURL: String? = "", bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): HashChangeEventInit {
 val o = js("{}")
 o["oldURL"] = oldURL
 o["newURL"] =
newURL
 o["bubbles"] = bubbles
 o["cancelable"] = cancelable
 o["composed"] = composed
 return o
}
/**
 * Exposes the JavaScript
[PageTransitionEvent](https://developer.mozilla.org/en/docs/Web/API/PageTransitionEvent) to Kotlin
*/
npublic
external open class PageTransitionEvent(type: String, eventInitDict: PageTransitionEventInit = definedExternally) :
Event {
 open val persisted: Boolean
 companion object {
 val NONE: Short
 val CAPTURING_PHASE: Short
 val AT_TARGET: Short
 val BUBBLING_PHASE: Short
 }
}
npublic external interface PageTransitionEventInit : EventInit {
 var persisted: Boolean? /* = false */
 get() = definedExternally
 set(value) = definedExternally
}
@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
npublic inline fun PageTransitionEventInit(persisted:
Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false):
PageTransitionEventInit {
 val o = js("{}")
 o["persisted"] = persisted
 o["bubbles"] = bubbles
 o["cancelable"] = cancelable
 o["composed"] = composed
 return o
}
/**
 * Exposes the JavaScript
[BeforeUnloadEvent](https://developer.mozilla.org/en/docs/Web/API/BeforeUnloadEvent) to Kotlin
*/
npublic
external open class BeforeUnloadEvent : Event {
 var returnValue: String
 companion object {
 val NONE: Short
 val CAPTURING_PHASE: Short
 val AT_TARGET: Short
 val BUBBLING_PHASE: Short
 }
}
npublic external abstract class ApplicationCache : EventTarget {
 open val status: Short
 open var onchecking: ((Event) -> dynamic)?
 open var onerror: ((Event) -> dynamic)?
 open var onnoupdate: ((Event) -> dynamic)?
 open var ondownloading: ((Event) -> dynamic)?
 open var onprogress: ((ProgressEvent) -> dynamic)?
 open var onupdateready: ((Event) -> dynamic)?
 open var oncached: ((Event) -> dynamic)?
 open var onobsolete: ((Event) -> dynamic)?
 fun update()
 fun abort()
 fun swapCache()
 companion object {
 val UNCACHED: Short
 val IDLE: Short
 val CHECKING: Short
 val DOWNLOADING: Short
 val UPDATEREADY: Short
 val OBSOLETE: Short
 }
}
/**
 * Exposes the JavaScript
[NavigatorOnLine](https://developer.mozilla.org/en/docs/Web/API/NavigatorOnLine) to Kotlin
*/
npublic
external interface NavigatorOnLine {
 val onLine: Boolean
}
/**
 * Exposes the JavaScript
[ErrorEvent](https://developer.mozilla.org/en/docs/Web/API/ErrorEvent) to Kotlin
*/
npublic external open class
ErrorEvent(type: String, eventInitDict: ErrorEventInit = definedExternally) : Event {
 open val message: String
 open val filename: String
 open val lineno: Int
 open val colno: Int
 open val error: Any?
 companion
object {
 val NONE: Short
 val CAPTURING_PHASE: Short
 val AT_TARGET: Short
 val BUBBLING_PHASE: Short
 }
}
npublic external interface ErrorEventInit : EventInit {
 var message:
String? /* = "" */
 get() = definedExternally
 set(value) = definedExternally
 var filename: String? /*
= "" */
 get() = definedExternally
 set(value) = definedExternally
 var lineno: Int? /* = 0 */
 get() = definedExternally
 set(value) = definedExternally
}

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get() = definedExternally\n set(value) = definedExternally\n var colno: Int? /* = 0 */\n get() =
definedExternally\n set(value) = definedExternally\n var error: Any? /* = null */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ErrorEventInit(message: String? = \"\",
filename: String? = \"\", lineno: Int? = 0, colno: Int? = 0, error: Any? = null, bubbles: Boolean? = false, cancelable:
Boolean? = false, composed: Boolean? = false): ErrorEventInit {\n val o = js(\"({})\")\n o[\"message\"] =
message\n o[\"filename\"] = filename\n o[\"lineno\"] = lineno\n o[\"colno\"] = colno\n o[\"error\"] = error\n
o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return
o\n}\n\n/**\n * Exposes the JavaScript
[PromiseRejectionEvent](https://developer.mozilla.org/en/docs/Web/API/PromiseRejectionEvent) to Kotlin\n
*\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 var reason: Any?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\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() =
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) ->

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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
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

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get() = definedExternally\n set(value) = definedExternally\n}\n\n/**\n * Exposes the JavaScript
[WindowEventHandlers](https://developer.mozilla.org/en/docs/Web/API/WindowEventHandlers) to Kotlin\n
*\npublic external interface WindowEventHandlers {\n var onafterprint: ((Event) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var onbeforeprint: ((Event) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var onbeforeunload: ((BeforeUnloadEvent) ->
String)?\n get() = definedExternally\n set(value) = definedExternally\n var onhashchange:
((HashChangeEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var
onlanguagechange: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n
var onmessage: ((MessageEvent) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n var onoffline: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n var ononline: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n var onpagehide: ((PageTransitionEvent) -> dynamic)?\n get() = definedExternally\n
set(value) = definedExternally\n var onpageshow: ((PageTransitionEvent) -> dynamic)?\n get() =
definedExternally\n set(value) = definedExternally\n var onpopstate: ((PopStateEvent) -> dynamic)?\n
get() = definedExternally\n set(value) = definedExternally\n var onrejectionhandled: ((Event) -> dynamic)?\n
 get() = definedExternally\n set(value) = definedExternally\n var onstorage: ((StorageEvent) -> dynamic)?\n
 get() = definedExternally\n set(value) = definedExternally\n var onunhandledrejection:
((PromiseRejectionEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n
var onunload: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\npublic external interface DocumentAndElementEventHandlers {\n var oncopy:
((ClipboardEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var oncut:
((ClipboardEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var
onpaste: ((ClipboardEvent) -> dynamic)?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n/**\n * Exposes the JavaScript
[WindowOrWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WindowOrWorkerGlobalScope)
to Kotlin\n
*\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
requestMediaKeySystemAccess(keySystem: String, supportedConfigurations:
Array<MediaKeySystemConfiguration>): Promise<MediaKeySystemAccess>\n fun getUserMedia(constraints:
MediaStreamConstraints, successCallback: (MediaStream) -> Unit, errorCallback: (dynamic) -> Unit)\n fun
vibrate(pattern: dynamic): Boolean\n}\n\n/**\n * Exposes the JavaScript
[NavigatorID](https://developer.mozilla.org/en/docs/Web/API/NavigatorID) to Kotlin\n
*\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

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external interface NavigatorContentUtils {\n fun registerProtocolHandler(scheme: String, url: String, title:
String)\n fun registerContentHandler(mimeType: String, url: String, title: String)\n fun
isProtocolHandlerRegistered(scheme: String, url: String): String\n fun isContentHandlerRegistered(mimeType:
String, url: String): String\n fun unregisterProtocolHandler(scheme: String, url: String)\n fun
unregisterContentHandler(mimeType: String, url: String)\n}\n\npublic external interface NavigatorCookies {\n val
cookieEnabled: Boolean\n}\n\n/**\n * Exposes the JavaScript
[NavigatorPlugins](https://developer.mozilla.org/en/docs/Web/API/NavigatorPlugins) to Kotlin\n */\n\npublic
external interface NavigatorPlugins {\n val plugins: PluginArray\n val mimeTypes: MimeTypeError\n fun
javaEnabled(): Boolean\n}\n\n/**\n * Exposes the JavaScript
[PluginArray](https://developer.mozilla.org/en/docs/Web/API/PluginArray) to Kotlin\n */\n\npublic external abstract
class PluginArray : ItemArrayLike<Plugin> {\n fun refresh(reload: Boolean = definedExternally)\n override fun
item(index: Int): Plugin?\n fun namedItem(name: String):
Plugin?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\n\npublic inline operator fun PluginArray.get(index: Int):
Plugin? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\n\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 */\n\npublic external
abstract class MimeTypeArray : ItemArrayLike<MimeType> {\n override fun item(index: Int): MimeType?\n fun
namedItem(name: String): MimeType?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\n\npublic inline operator fun MimeTypeArray.get(index:
Int): MimeType? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\n\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 */\n\npublic external abstract class Plugin
: ItemArrayLike<MimeType> {\n open val name: String\n open val description: String\n open val filename:
String\n override fun item(index: Int): MimeType?\n fun namedItem(name: String):
MimeType?\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\n\npublic inline operator fun Plugin.get(index: Int):
MimeType? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\n\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 */\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 */\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@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\n\npublic inline fun
ImageBitmapOptions(imageOrientation: ImageOrientation? = ImageOrientation.NONE, premultiplyAlpha:

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PremultiplyAlpha? = PremultiplyAlpha.DEFAULT, colorSpaceConversion: ColorSpaceConversion? =
ColorSpaceConversion.DEFAULT, resizeMode: Int? = undefined, resizeMode: Int? = undefined, resizeMode:
ResizeQuality? = ResizeQuality.LOW): ImageBitmapOptions {\n val o = js("{}")\n o["imageOrientation"]
= imageOrientation\n o["premultiplyAlpha"] = premultiplyAlpha\n o["colorSpaceConversion"] =
colorSpaceConversion\n o["resizeWidth"] = resizeMode\n o["resizeHeight"] = resizeMode\n
o["resizeQuality"] = resizeMode\n return o\n}\n\n/**\n * Exposes the JavaScript
[MessageEvent](https://developer.mozilla.org/en/docs/Web/API/MessageEvent) to Kotlin\n *\npublic external open
class MessageEvent(type: String, eventInitDict: MessageEventInit = definedExternally) : Event {\n open val data:
Any?\n open val origin: String\n open val lastEventId: String\n open val source:
UnionMessagePortOrWindowProxy?\n open val ports: Array<out MessagePort>\n fun initMessageEvent(type:
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@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\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@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\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 [WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket) to
Kotlin\n *\npublic external open class WebSocket(url: String, protocols: dynamic = definedExternally) :
EventTarget {\n open val url: String\n open val readyState: Short\n open val bufferedAmount: Number\n var
onopen: ((Event) -> dynamic)?\n var onerror: ((Event) -> dynamic)?\n var onclose: ((Event) -> dynamic)?\n
open val extensions: String\n open val protocol: String\n var onmessage: ((MessageEvent) -> dynamic)?\n var
binaryType: BinaryType\n fun close(code: Short = definedExternally, reason: String = definedExternally)\n fun
send(data: String)\n fun send(data: Blob)\n fun send(data: ArrayBuffer)\n fun send(data:
ArrayBufferView)\n\n companion object {\n val CONNECTING: Short\n val OPEN: Short\n val
CLOSING: Short\n val CLOSED: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[CloseEvent](https://developer.mozilla.org/en/docs/Web/API/CloseEvent) to Kotlin\n *\npublic external open class
CloseEvent(type: String, eventInitDict: CloseEventInit = definedExternally) : Event {\n open val wasClean:
Boolean\n open val code: Short\n open val reason: String\n\n companion object {\n val NONE: Short\n
val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n

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}\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@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\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 */\npublic external
open class MessageChannel {\n open val port1: MessagePort\n open val port2: MessagePort\n}\n\n/**\n *
Exposes the JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin\n
*/\npublic external abstract class MessagePort : EventTarget, UnionMessagePortOrWindowProxy,
UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {\n open var onmessage:
((MessageEvent) -> dynamic)?\n fun postMessage(message: Any?, transfer: Array<dynamic> =
definedExternally)\n fun start()\n fun close()\n}\n\n/**\n * Exposes the JavaScript
[BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin\n */\npublic
external open class BroadcastChannel(name: String) : EventTarget {\n open val name: String\n var onmessage:
((MessageEvent) -> dynamic)?\n fun postMessage(message: Any?)\n fun close()\n}\n\n/**\n * Exposes the
JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin\n
*/\npublic external abstract class WorkerGlobalScope : EventTarget, WindowOrWorkerGlobalScope,
GlobalPerformance {\n open val self: WorkerGlobalScope\n open val location: WorkerLocation\n open val
navigator: WorkerNavigator\n open var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n open var
onlanguagechange: ((Event) -> dynamic)?\n open var onoffline: ((Event) -> dynamic)?\n open var ononline:
((Event) -> dynamic)?\n open var onrejectionhandled: ((Event) -> dynamic)?\n open var onunhandledrejection:
((PromiseRejectionEvent) -> dynamic)?\n fun importScripts(vararg urls: String)\n}\n\n/**\n * Exposes the
JavaScript
[DedicatedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/DedicatedWorkerGlobalScope) to
Kotlin\n */\npublic external abstract class DedicatedWorkerGlobalScope : WorkerGlobalScope {\n open var
onmessage: ((MessageEvent) -> dynamic)?\n fun postMessage(message: Any?, transfer: Array<dynamic> =
definedExternally)\n fun close()\n}\n\n/**\n * Exposes the JavaScript
[SharedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/SharedWorkerGlobalScope) to
Kotlin\n */\npublic external abstract class SharedWorkerGlobalScope : WorkerGlobalScope {\n open val name:
String\n open val applicationCache: ApplicationCache\n open var onconnect: ((Event) -> dynamic)?\n fun
close()\n}\n\n/**\n * Exposes the JavaScript
[AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin\n */\npublic external
interface AbstractWorker {\n var onerror: ((Event) -> dynamic)?\n get() = definedExternally\n set(value)
= definedExternally\n}\n\n/**\n * Exposes the JavaScript
[Worker](https://developer.mozilla.org/en/docs/Web/API/Worker) to Kotlin\n */\npublic external open class
Worker(scriptURL: String, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {\n var
onmessage: ((MessageEvent) -> dynamic)?\n override var onerror: ((Event) -> dynamic)?\n fun terminate()\n fun
postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n}\n\npublic external interface
WorkerOptions {\n var type: WorkerType? /* = WorkerType.CLASSIC */\n get() = definedExternally\n set(value) = definedExternally\n var credentials: RequestCredentials? /* = RequestCredentials.OMIT */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun WorkerOptions(type: WorkerType? =
WorkerType.CLASSIC, credentials: RequestCredentials? = RequestCredentials.OMIT): WorkerOptions {\n val o
= js("{}")\n o["type"] = type\n o["credentials"] = credentials\n return o\n}\n\n/**\n * Exposes the

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JavaScript [SharedWorker](https://developer.mozilla.org/en/docs/Web/API/SharedWorker) to Kotlin\n \* public 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 \* Exposes the JavaScript

[NavigatorConcurrentHardware](https://developer.mozilla.org/en/docs/Web/API/NavigatorConcurrentHardware) to Kotlin\n \* public external interface NavigatorConcurrentHardware {\n val hardwareConcurrency: Number\n}\n\n \* Exposes the JavaScript

[WorkerNavigator](https://developer.mozilla.org/en/docs/Web/API/WorkerNavigator) to Kotlin\n \* public external abstract class WorkerNavigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorConcurrentHardware {\n open val serviceWorker: ServiceWorkerContainer\n}\n\n \* Exposes the JavaScript

[WorkerLocation](https://developer.mozilla.org/en/docs/Web/API/WorkerLocation) to Kotlin\n \* public 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 \* Exposes the JavaScript

[Storage](https://developer.mozilla.org/en/docs/Web/API/Storage) to Kotlin\n \* public external abstract class Storage {\n open val length: Int\n fun key(index: Int): String?\n fun removeItem(key: String)\n fun clear()\n fun getItem(key: String): String?\n fun setItem(key: String, value: String)\n}\n\n @Suppress("INVISIBLE\_REFERENCE", "INVISIBLE\_MEMBER")\n @kotlin.internal.InlineOnly\n public inline operator fun Storage.get(key: String): String? = asDynamic()[key]\n\n @Suppress("INVISIBLE\_REFERENCE", "INVISIBLE\_MEMBER")\n @kotlin.internal.InlineOnly\n public inline operator fun Storage.set(key: String, value: String) { asDynamic()[key] = value }\n\n \* Exposes the JavaScript

[WindowSessionStorage](https://developer.mozilla.org/en/docs/Web/API/WindowSessionStorage) to Kotlin\n \* public external interface WindowSessionStorage {\n val sessionStorage: Storage\n}\n\n \* Exposes the JavaScript

[WindowLocalStorage](https://developer.mozilla.org/en/docs/Web/API/WindowLocalStorage) to Kotlin\n \* public external interface WindowLocalStorage {\n val localStorage: Storage\n}\n\n \* Exposes the JavaScript

[StorageEvent](https://developer.mozilla.org/en/docs/Web/API/StorageEvent) to Kotlin\n \* public 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\n public external interface StorageEventInit : EventInit {\n var key: String? /\* = null \*/\n get() = definedExternally\n set(value) = definedExternally\n var oldValue: String? /\* = null \*/\n get() = definedExternally\n set(value) = definedExternally\n var newValue: String? /\* = null \*/\n get() = definedExternally\n set(value) = definedExternally\n var url: String? /\* = "" \*/\n get() = definedExternally\n set(value) = definedExternally\n var storageArea: Storage? /\* = null \*/\n get() = definedExternally\n set(value) = definedExternally\n}\n\n @Suppress("INVISIBLE\_REFERENCE", "INVISIBLE\_MEMBER")\n @kotlin.internal.InlineOnly\n public inline fun StorageEventInit(key: String? = null, oldValue: String? = null, newValue: String? = null, url: String? = "", storageArea: Storage? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): StorageEventInit {\n val o = js("{}")\n o["key"] = key\n o["oldValue"] = oldValue\n o["newValue"] = newValue\n o["url"] = url\n o["storageArea"] = storageArea\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n public 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:

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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\n/**\n * Exposes the JavaScript
[HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to Kotlin\n
*/\npublic external abstract class HTMLMarqueeElement : HTMLInputElement {\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/**\n * Exposes the JavaScript
[HTMLFrameSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFrameSetElement) to Kotlin\n
*/\npublic external abstract class HTMLFrameSetElement : HTMLInputElement, 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\n\npublic external abstract class
HTMLFrameElement : HTMLInputElement {\n open var name: String\n open var scrolling: String\n open var src:
String\n open var frameBorder: String\n open var longDesc: String\n open var noResize: Boolean\n open val
contentDocument: Document?\n open val contentWindow: Window?\n open var marginHeight: String\n open
var marginWidth: String\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n\npublic external abstract class
HTMLDirectoryElement : HTMLInputElement {\n open var compact: Boolean\n\n companion object {\n val

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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 *\npublic
external abstract class HTMLFontElement : HTMLElement {\n open var color: String\n open var face: String\n
open var size: String\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }n}\n\npublic external interface External
{\n fun AddSearchProvider()\n fun IsSearchProviderInstalled()\n}\n\npublic external interface EventInit {\n
var bubbles: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var
cancelable: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var
composed: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun EventInit(bubbles: Boolean? = false,
cancelable: Boolean? = false, composed: Boolean? = false): EventInit {\n val o = js("{}")\n o["bubbles"] =
bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n/**\n * Exposes the
JavaScript [CustomEvent](https://developer.mozilla.org/en/docs/Web/API/CustomEvent) to Kotlin\n *\npublic
external open class CustomEvent(type: String, eventInitDict: CustomEventInit = definedExternally) : Event {\n
open val detail: Any?\n fun initCustomEvent(type: String, bubbles: Boolean, cancelable: Boolean, detail:
Any?)\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val
AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }n}\n\npublic external interface CustomEventInit :
EventInit {\n var detail: Any? /* = null */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun CustomEventInit(detail: Any? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CustomEventInit {\n val o
= js("{}")\n o["detail"] = detail\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n
o["composed"] = composed\n return o\n}\n\npublic external interface EventListenerOptions {\n var capture:
Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun EventListenerOptions(capture:
Boolean? = false): EventListenerOptions {\n val o = js("{}")\n o["capture"] = capture\n return
o\n}\n\npublic external interface AddEventListenerOptions : EventListenerOptions {\n var passive: Boolean? /* =
false */\n get() = definedExternally\n set(value) = definedExternally\n var once: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun AddEventListenerOptions(passive:

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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\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**\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**\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**\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\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun NodeList.get(index: Int):
Node? = asDynamic()[index]\n}\n\n**\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\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun HTMLCollection.get(index:
Int): Element? = asDynamic()[index]\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun HTMLCollection.get(name:
String): Element? = asDynamic()[name]\n}\n\n**\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**\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\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun MutationObserverInit(childList:
Boolean? = false, attributes: Boolean? = undefined, characterData: Boolean? = undefined, subtree: Boolean? = false,

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attributeOldValue: Boolean? = undefined, characterDataOldValue: Boolean? = undefined, attributeFilter:
Array<String>? = undefined): MutationObserverInit {
 val o = js("{}")
 o["childList"] = childList
 o["attributes"] = attributes
 o["characterData"] = characterData
 o["subtree"] = subtree
 o["attributeOldValue"] = attributeOldValue
 o["characterDataOldValue"] = characterDataOldValue
 o["attributeFilter"] = attributeFilter
 return o
}

/** Exposes the JavaScript
[MutationRecord](https://developer.mozilla.org/en/docs/Web/API/MutationRecord) to Kotlin
*/
@public external
abstract class MutationRecord {
 open val type: String
 open val target: Node
 open val addedNodes:
 NodeList
 open val removedNodes: NodeList
 open val previousSibling: Node?
 open val nextSibling:
 Node?
 open val attributeName: String?
 open val attributeNamespace: String?
 open val oldValue:
 String?
}

/** Exposes the JavaScript [Node](https://developer.mozilla.org/en/docs/Web/API/Node) to
Kotlin
*/
@public external
abstract class Node : EventTarget {
 open val nodeType: Short
 open val
 nodeName: String
 open val baseURI: String
 open val isConnected: Boolean
 open val ownerDocument:
 Document?
 open val parentNode: Node?
 open val parentElement: Element?
 open val childNodes:
 NodeList
 open val firstChild: Node?
 open val lastChild: Node?
 open val previousSibling: Node?
 open val nextSibling: Node?
 open var nodeValue: String?
 open var textContent: String?
 fun
 getRootNode(options: GetRootNodeOptions = definedExternally): Node
 fun hasChildNodes(): Boolean
 fun
 normalize()
 fun cloneNode(deep: Boolean = definedExternally): Node
 fun isEqualNode(otherNode: Node?):
 Boolean
 fun isSameNode(otherNode: Node?): Boolean
 fun compareDocumentPosition(other: Node): Short
 fun
 contains(other: Node?): Boolean
 fun lookupPrefix(namespace: String?): String?
 fun
 lookupNamespaceURI(prefix: String?): String?
 fun isDefaultNamespace(namespace: String?): Boolean
 fun
 insertBefore(node: Node, child: Node?): Node
 fun appendChild(node: Node): Node
 fun replaceChild(node:
 Node, child: Node): Node
 fun removeChild(child: Node): Node

 companion object {
 val
 ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val
 CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE:
 Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val
 DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
 val
 DOCUMENT_FRAGMENT_NODE: Short
 val NOTATION_NODE: Short

 val
 DOCUMENT_POSITION_DISCONNECTED: Short
 val DOCUMENT_POSITION_PRECEDING: Short
 val
 DOCUMENT_POSITION_FOLLOWING: Short
 val DOCUMENT_POSITION_CONTAINS: Short
 val
 DOCUMENT_POSITION_CONTAINED_BY: Short
 val
 DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
 }
}

@public external
interface
GetRootNodeOptions {
 var composed: Boolean? /* = false */
 get() = definedExternally
 set(value) =
 definedExternally
}

@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")
@kotlin.internal.InlineOnly
@public inline fun GetRootNodeOptions(composed:
Boolean? = false): GetRootNodeOptions {
 val o = js("{}")
 o["composed"] = composed
 return
 o
}

/** Exposes the JavaScript [Document](https://developer.mozilla.org/en/docs/Web/API/Document) to
Kotlin
*/
@public external
open class Document : Node, GlobalEventHandlers,
DocumentAndElementEventHandlers, NonElementParentNode, DocumentOrShadowRoot, ParentNode,
GeometryUtils {
 open val implementation: DOMImplementation
 open val URL: String
 open val
 documentURI: String
 open val origin: String
 open val compatMode: String
 open val characterSet:
 String
 open val charset: String
 open val inputEncoding: String
 open val contentType: String
 open val
 doctype: DocumentType?
 open val documentElement: Element?
 open val location: Location?
 var
 domain: String
 open val referrer: String
 var cookie: String
 open val lastModified: String
 open val
 readyState: DocumentReadyState
 var title: String
 var dir: String
 var body: HTMLElement?
 open val
 head: HTMLHeadElement?
 open val images: HTMLCollection
 open val embeds: HTMLCollection
 open
 val plugins: HTMLCollection
 open val links: HTMLCollection
 open val forms: HTMLCollection
 open
 val scripts: HTMLCollection
 open val currentScript: HTMLScriptElement?
 open val defaultView:
 Window?
 open val activeElement: Element?
 var designMode: String
 var onreadystatechange: ((Event) ->

```

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dynamic)?\n var fgColor: String\n var linkColor: String\n var vlinkColor: String\n var alinkColor: String\n
var bgColor: String\n open val anchors: HTMLCollection\n open val applets: HTMLCollection\n open val all:
HTMLAllCollection\n open val scrollingElement: Element?\n open val styleSheets: StyleSheetList\n open val
rootElement: SVGSVGElement?\n open val fullscreenEnabled: Boolean\n open val fullscreen: Boolean\n var
onfullscreenchange: ((Event) -> dynamic)?\n var onfullscreenerror: ((Event) -> dynamic)?\n override var
onabort: ((Event) -> dynamic)?\n override var onblur: ((FocusEvent) -> dynamic)?\n override var oncancel:
((Event) -> dynamic)?\n override var oncanplay: ((Event) -> dynamic)?\n override var oncanplaythrough:
((Event) -> dynamic)?\n override var onchange: ((Event) -> dynamic)?\n override var onclick: ((MouseEvent) ->
dynamic)?\n override var onclose: ((Event) -> dynamic)?\n override var oncontextmenu: ((MouseEvent) ->
dynamic)?\n override var oncuechange: ((Event) -> dynamic)?\n override var ondblclick: ((MouseEvent) ->
dynamic)?\n override var ondrag: ((DragEvent) -> dynamic)?\n override var ondragend: ((DragEvent) ->
dynamic)?\n override var ondragenter: ((DragEvent) -> dynamic)?\n override var ondragexit: ((DragEvent) ->
dynamic)?\n override var ondragleave: ((DragEvent) -> dynamic)?\n override var ondragover: ((DragEvent) ->
dynamic)?\n override var ondragstart: ((DragEvent) -> dynamic)?\n override var ondrop: ((DragEvent) ->
dynamic)?\n override var ondurationchange: ((Event) -> dynamic)?\n override var onemptied: ((Event) ->
dynamic)?\n override var onended: ((Event) -> dynamic)?\n override var onerror: ((dynamic, String, Int, Int,
Any?) -> dynamic)?\n override var onfocus: ((FocusEvent) -> dynamic)?\n override var oninput: ((InputEvent) -
> dynamic)?\n override var oninvalid: ((Event) -> dynamic)?\n override var onkeydown: ((KeyboardEvent) ->
dynamic)?\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\n override var onkeyup:
((KeyboardEvent) -> dynamic)?\n override var onload: ((Event) -> dynamic)?\n override var onloadeddata:
((Event) -> dynamic)?\n override var onloadedmetadata: ((Event) -> dynamic)?\n override var onloadend:
((Event) -> dynamic)?\n override var onloadstart: ((ProgressEvent) -> dynamic)?\n override var onmousedown:
((MouseEvent) -> dynamic)?\n override var onmouseenter: ((MouseEvent) -> dynamic)?\n override var
onmouseleave: ((MouseEvent) -> dynamic)?\n override var onmousemove: ((MouseEvent) -> dynamic)?\n
override var onmouseout: ((MouseEvent) -> dynamic)?\n override var onmouseover: ((MouseEvent) ->
dynamic)?\n override var onmouseup: ((MouseEvent) -> dynamic)?\n override var onwheel: ((WheelEvent) ->
dynamic)?\n override var onpause: ((Event) -> dynamic)?\n override var onplay: ((Event) -> dynamic)?\n
override var onplaying: ((Event) -> dynamic)?\n override var onprogress: ((ProgressEvent) -> dynamic)?\n
override var onratechange: ((Event) -> dynamic)?\n override var onreset: ((Event) -> dynamic)?\n override var
onresize: ((Event) -> dynamic)?\n override var onscroll: ((Event) -> dynamic)?\n override var onseeked:
((Event) -> dynamic)?\n override var onseeking: ((Event) -> dynamic)?\n override var onselect: ((Event) ->
dynamic)?\n override var onshow: ((Event) -> dynamic)?\n override var onstalled: ((Event) -> dynamic)?\n
override var onsubmit: ((Event) -> dynamic)?\n override var onsuspend: ((Event) -> dynamic)?\n override var
ontimeupdate: ((Event) -> dynamic)?\n override var ontoggle: ((Event) -> dynamic)?\n override var
onvolumechange: ((Event) -> dynamic)?\n override var onwaiting: ((Event) -> dynamic)?\n override var
ongotpointercapture: ((PointerEvent) -> dynamic)?\n override var onlostpointercapture: ((PointerEvent) ->
dynamic)?\n override var onpointerdown: ((PointerEvent) -> dynamic)?\n override var onpointermove:
((PointerEvent) -> dynamic)?\n override var onpointerup: ((PointerEvent) -> dynamic)?\n override var
onpointercancel: ((PointerEvent) -> dynamic)?\n override var onpointerover: ((PointerEvent) -> dynamic)?\n
override var onpointerout: ((PointerEvent) -> dynamic)?\n override var onpointerenter: ((PointerEvent) ->
dynamic)?\n override var onpointerleave: ((PointerEvent) -> dynamic)?\n override var oncopy:
((ClipboardEvent) -> dynamic)?\n 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
getElementsByTagName(className: String): HTMLCollection\n fun createElement(localName: String,
options: ElementCreationOptions = definedExternally): Element\n fun createElementNS(namespace: String?,

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qualifiedName: String, options: ElementCreationOptions = definedExternally): Element\n fun
createDocumentFragment(): DocumentFragment\n fun createTextNode(data: String): Text\n fun
createCDATASection(data: String): CDATASection\n fun createComment(data: String): Comment\n fun
createProcessingInstruction(target: String, data: String): ProcessingInstruction\n fun importNode(node: Node,
deep: Boolean = definedExternally): Node\n fun adoptNode(node: Node): Node\n fun
createAttribute(localName: String): Attr\n fun createAttributeNS(namespace: String?, qualifiedName: String):
Attr\n fun createEvent(`interface`: String): Event\n fun createRange(): Range\n fun createNodeIterator(root:
Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): NodeIterator\n fun
createNodeIterator(root: Node, whatToShow: Int = definedExternally, filter: ((Node) -> Short)? =
definedExternally): NodeIterator\n fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter:
NodeFilter? = definedExternally): TreeWalker\n fun createTreeWalker(root: Node, whatToShow: Int =
definedExternally, filter: ((Node) -> Short)? = definedExternally): TreeWalker\n fun
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@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Document.get(name: String):
dynamic = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[XMLDocument](https://developer.mozilla.org/en/docs/Web/API/XMLDocument) to Kotlin\n *\npublic external
open class XMLDocument : Document {\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val

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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 interface
ElementCreationOptions {\n var `is`: String?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ElementCreationOptions(`is`: String?
= undefined): ElementCreationOptions {\n val o = js("{}")\n o["is"] = `is`\n return o\n}\n\n**\n *
Exposes the JavaScript
[DOMImplementation](https://developer.mozilla.org/en/docs/Web/API/DOMImplementation) to Kotlin\n
*\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
*\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
*\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
*\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

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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
[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} \n \n @Suppress("INVISIBLE_REFERENCE"),

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\`INVISIBLE_MEMBER`\n@kotlin.internal.InlineOnly\npublic inline fun ShadowRootInit(mode:
ShadowRootMode?): ShadowRootInit {\n val o = js("{}")\n o["mode"] = mode\n return o\n}\n\n/*
Exposes the JavaScript [NamedNodeMap](https://developer.mozilla.org/en/docs/Web/API/NamedNodeMap) to
Kotlin\n\n*/\npublic external abstract class NamedNodeMap : ItemArrayLike<Attr> {\n fun
getNamedItemNS(namespace: String?, localName: String): Attr?\n fun setNamedItem(attr: Attr): Attr?\n fun
setNamedItemNS(attr: Attr): Attr?\n fun removeNamedItem(qualifiedName: String): Attr\n fun
removeNamedItemNS(namespace: String?, localName: String): Attr\n override fun item(index: Int): Attr?\n fun
getNamedItem(qualifiedName: String): Attr?\n}\n\n@Suppress("`INVISIBLE_REFERENCE`",
\`INVISIBLE_MEMBER`\n@kotlin.internal.InlineOnly\npublic inline operator fun NamedNodeMap.get(index:
Int): Attr? = asDynamic()[index]\n\n@Suppress("`INVISIBLE_REFERENCE`",
\`INVISIBLE_MEMBER`\n@kotlin.internal.InlineOnly\npublic inline operator fun
NamedNodeMap.get(qualifiedName: String): Attr? = asDynamic()[qualifiedName]\n\n*/\n\n * Exposes the
JavaScript [Attr](https://developer.mozilla.org/en/docs/Web/API/Attr) to Kotlin\n\n*/\npublic external abstract class
Attr : Node {\n open val namespaceURI: String?\n open val prefix: String?\n open val localName: String\n open
val name: String\n open var value: String\n open val ownerElement: Element?\n open val specified:
Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val
TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:
Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val
COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val
DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val
DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/*\n\n * Exposes the JavaScript
[CharacterData](https://developer.mozilla.org/en/docs/Web/API/CharacterData) to Kotlin\n\n*/\npublic external
abstract class CharacterData : Node, NonDocumentTypeChildNode, ChildNode {\n open var data: String\n open
val length: Int\n fun substringData(offset: Int, count: Int): String\n fun appendData(data: String)\n fun
insertData(offset: Int, data: String)\n fun deleteData(offset: Int, count: Int)\n fun replaceData(offset: Int, count:
Int, data: String)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val
DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val
DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/*\n\n * Exposes the JavaScript
[Text](https://developer.mozilla.org/en/docs/Web/API/Text) to Kotlin\n\n*/\npublic external open class Text(data:
String = definedExternally) : CharacterData, Slotable, GeometryUtils {\n open val wholeText: String\n override
val assignedSlot: HTMLSlotElement?\n override val previousElementSibling: Element?\n override val
nextElementSibling: Element?\n fun splitText(offset: Int): Text\n override fun getBoxQuads(options:
BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n override fun convertQuadFromNode(quad:
dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override
fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic,
options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n override fun before(vararg nodes:
dynamic)\n override fun after(vararg nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n

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```

endOffset: Int\n open val collapsed: Boolean\n open val commonAncestorContainer: Node\n fun setStart(node:
Node, offset: Int)\n fun setEnd(node: Node, offset: Int)\n fun setStartBefore(node: Node)\n fun
setStartAfter(node: Node)\n fun setEndBefore(node: Node)\n fun setEndAfter(node: Node)\n fun
collapse(toStart: Boolean = definedExternally)\n fun selectNode(node: Node)\n fun selectNodeContents(node:
Node)\n fun compareBoundaryPoints(how: Short, sourceRange: Range): Short\n fun deleteContents()\n fun
extractContents(): DocumentFragment\n fun cloneContents(): DocumentFragment\n fun insertNode(node:
Node)\n fun surroundContents(newParent: Node)\n fun cloneRange(): Range\n fun detach()\n fun
isPointInRange(node: Node, offset: Int): Boolean\n fun comparePoint(node: Node, offset: Int): Short\n fun
intersectsNode(node: Node): Boolean\n fun getClientRects(): Array<DOMRect>\n fun
getBoundingClientRect(): DOMRect\n fun createContextualFragment(fragment: String): DocumentFragment\n\n
companion object {\n val START_TO_START: Short\n val START_TO_END: Short\n val
END_TO_END: Short\n val END_TO_START: Short\n }\n}\n\n/**\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")\n\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@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun DOMTokenList.get(index:
Int): String? = asDynamic()[index]\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

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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@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\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 * Exposes the JavaScript
[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@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\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@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\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):

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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
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@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\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@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\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) =

```

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definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\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() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\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@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\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@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\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
*/\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
*/\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@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\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}

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companion object {
 val NONE: Short
 val CAPTURING_PHASE: Short
 val AT_TARGET: Short
 val BUBBLING_PHASE: Short
}

/** Exposes the JavaScript
[Image](https://developer.mozilla.org/en/docs/Web/API/Image) to Kotlin */
public external open class Image(
 width: Int = definedExternally,
 height: Int = definedExternally
) : HTMLElement {
 override var onabort: ((Event) -> dynamic)?
 override var onblur: ((FocusEvent) -> dynamic)?
 override var oncancel: ((Event) -> dynamic)?
 override var oncanplay: ((Event) -> dynamic)?
 override var oncanplaythrough: ((Event) -> dynamic)?
 override var onchange: ((Event) -> dynamic)?
 override var onclick: ((MouseEvent) -> dynamic)?
 override var onclose: ((Event) -> dynamic)?
 override var oncontextmenu: ((MouseEvent) -> dynamic)?
 override var oncuechange: ((Event) -> dynamic)?
 override var ondblclick: ((MouseEvent) -> dynamic)?
 override var ondrag: ((DragEvent) -> dynamic)?
 override var ondragend: ((DragEvent) -> dynamic)?
 override var ondragenter: ((DragEvent) -> dynamic)?
 override var ondragexit: ((DragEvent) -> dynamic)?
 override var ondragleave: ((DragEvent) -> dynamic)?
 override var ondragover: ((DragEvent) -> dynamic)?
 override var ondragstart: ((DragEvent) -> dynamic)?
 override var ondrop: ((DragEvent) -> dynamic)?
 override var ondurationchange: ((Event) -> dynamic)?
 override var onemptied: ((Event) -> dynamic)?
 override var onended: ((Event) -> dynamic)?
 override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?
 override var onfocus: ((FocusEvent) -> dynamic)?
 override var oninput: ((InputEvent) -> dynamic)?
 override var oninvalid: ((Event) -> dynamic)?
 override var onkeydown: ((KeyboardEvent) -> dynamic)?
 override var onkeypress: ((KeyboardEvent) -> dynamic)?
 override var onkeyup: ((KeyboardEvent) -> dynamic)?
 override var onload: ((Event) -> dynamic)?
 override var onloadeddata: ((Event) -> dynamic)?
 override var onloadedmetadata: ((Event) -> dynamic)?
 override var onloadend: ((Event) -> dynamic)?
 override var onloadstart: ((ProgressEvent) -> dynamic)?
 override var onmousedown: ((MouseEvent) -> dynamic)?
 override var onmouseenter: ((MouseEvent) -> dynamic)?
 override var onmouseleave: ((MouseEvent) -> dynamic)?
 override var onmousemove: ((MouseEvent) -> dynamic)?
 override var onmouseout: ((MouseEvent) -> dynamic)?
 override var onmouseover: ((MouseEvent) -> dynamic)?
 override var onmouseup: ((MouseEvent) -> dynamic)?
 override var onwheel: ((WheelEvent) -> dynamic)?
 override var onpause: ((Event) -> dynamic)?
 override var onplay: ((Event) -> dynamic)?
 override var onplaying: ((Event) -> dynamic)?
 override var onprogress: ((ProgressEvent) -> dynamic)?
 override var onratechange: ((Event) -> dynamic)?
 override var onreset: ((Event) -> dynamic)?
 override var onresize: ((Event) -> dynamic)?
 override var onscroll: ((Event) -> dynamic)?
 override var onseeked: ((Event) -> dynamic)?
 override var onseeking: ((Event) -> dynamic)?
 override var onselect: ((Event) -> dynamic)?
 override var onshow: ((Event) -> dynamic)?
 override var onstalled: ((Event) -> dynamic)?
 override var onsubmit: ((Event) -> dynamic)?
 override var onsuspend: ((Event) -> dynamic)?
 override var ontimeupdate: ((Event) -> dynamic)?
 override var ontoggle: ((Event) -> dynamic)?
 override var onvolumechange: ((Event) -> dynamic)?
 override var onwaiting: ((Event) -> dynamic)?
 override var ongotpointercapture: ((PointerEvent) -> dynamic)?
 override var onlostpointercapture: ((PointerEvent) -> dynamic)?
 override var onpointerdown: ((PointerEvent) -> dynamic)?
 override var onpointermove: ((PointerEvent) -> dynamic)?
 override var onpointerup: ((PointerEvent) -> dynamic)?
 override var onpointercancel: ((PointerEvent) -> dynamic)?
 override var onpointerover: ((PointerEvent) -> dynamic)?
 override var onpointerout: ((PointerEvent) -> dynamic)?
 override var onpointerenter: ((PointerEvent) -> dynamic)?
 override var onpointerleave: ((PointerEvent) -> dynamic)?
 override var oncopy: ((ClipboardEvent) -> dynamic)?
 override var oncut: ((ClipboardEvent) -> dynamic)?
 override var onpaste: ((ClipboardEvent) -> dynamic)?
 override var contentEditable: String
 override val isContentEditable: Boolean
 override val style: CSSStyleDeclaration
 override val children: HTMLCollection
 override val firstElementChild: Element?
 override val lastElementChild: Element?
 override val childElementCount: Int
 override val previousElementSibling: Element?
 override val nextElementSibling: Element?
 override val assignedSlot: HTMLSlotElement?
 override fun prepend(vararg nodes: dynamic)
 override fun append(vararg nodes: dynamic)
 override fun querySelector(selectors: String): Element?
 override fun querySelectorAll(selectors: String): NodeList
 override fun before(vararg nodes: dynamic)
 override fun

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after(vararg nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n override fun remove()\n override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n\n public external open class Audio(src: String = definedExternally) : HTMLAudioElement {\n override var onabort: ((Event) -> dynamic)?\n override var onblur: ((FocusEvent) -> dynamic)?\n override var oncancel: ((Event) -> dynamic)?\n override var oncanplay: ((Event) -> dynamic)?\n override var oncanplaythrough: ((Event) -> dynamic)?\n override var onchange: ((Event) -> dynamic)?\n override var onclick: ((MouseEvent) -> dynamic)?\n override var onclose: ((Event) -> dynamic)?\n override var 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) ->

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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 NETWORK_EMPTY: Short\n val
NETWORK_IDLE: Short\n val NETWORK_LOADING: Short\n val NETWORK_NO_SOURCE: Short\n
 val HAVE_NOTHING: Short\n val HAVE_METADATA: Short\n val HAVE_CURRENT_DATA:
Short\n val HAVE_FUTURE_DATA: Short\n val HAVE_ENOUGH_DATA: Short\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[Option](https://developer.mozilla.org/en/docs/Web/API/Option) to Kotlin\n */\npublic external open class
Option(text: String = definedExternally, value: String = definedExternally, defaultSelected: Boolean =
definedExternally, selected: Boolean = definedExternally) : HTMLOptionElement {\n override var onabort:
((Event) -> dynamic)?\n override var onblur: ((FocusEvent) -> dynamic)?\n override var oncancel: ((Event) ->
dynamic)?\n override var oncanplay: ((Event) -> dynamic)?\n override var oncanplaythrough: ((Event) ->
dynamic)?\n override var onchange: ((Event) -> dynamic)?\n override var onclick: ((MouseEvent) ->
dynamic)?\n override var onclose: ((Event) -> dynamic)?\n override var oncontextmenu: ((MouseEvent) ->
dynamic)?\n override var oncuechange: ((Event) -> dynamic)?\n override var ondblclick: ((MouseEvent) ->
dynamic)?\n override var ondrag: ((DragEvent) -> dynamic)?\n override var ondragend: ((DragEvent) ->
dynamic)?\n override var ondragenter: ((DragEvent) -> dynamic)?\n override var ondragexit: ((DragEvent) ->
dynamic)?\n override var ondragleave: ((DragEvent) -> dynamic)?\n override var ondragover: ((DragEvent) ->
dynamic)?\n override var ondragstart: ((DragEvent) -> dynamic)?\n override var ondrop: ((DragEvent) ->
dynamic)?\n override var ondurationchange: ((Event) -> dynamic)?\n override var onemptied: ((Event) ->
dynamic)?\n override var onended: ((Event) -> dynamic)?\n override var onerror: ((dynamic, String, Int, Int,
Any?) -> dynamic)?\n override var onfocus: ((FocusEvent) -> dynamic)?\n override var oninput: ((InputEvent) -
> dynamic)?\n override var oninvalid: ((Event) -> dynamic)?\n override var onkeydown: ((KeyboardEvent) ->
dynamic)?\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\n override var onkeyup:

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((KeyboardEvent) -> dynamic)?\n override var onload: ((Event) -> dynamic)?\n override var onloadeddata:
((Event) -> dynamic)?\n override var onloadedmetadata: ((Event) -> dynamic)?\n override var onloadend:
((Event) -> dynamic)?\n override var onloadstart: ((ProgressEvent) -> dynamic)?\n override var onmousedown:
((MouseEvent) -> dynamic)?\n override var onmouseenter: ((MouseEvent) -> dynamic)?\n override var
onmouseleave: ((MouseEvent) -> dynamic)?\n override var onmousemove: ((MouseEvent) -> dynamic)?\n
override var onmouseout: ((MouseEvent) -> dynamic)?\n override var onmouseover: ((MouseEvent) ->
dynamic)?\n override var onmouseup: ((MouseEvent) -> dynamic)?\n override var onwheel: ((WheelEvent) ->
dynamic)?\n override var onpause: ((Event) -> dynamic)?\n override var onplay: ((Event) -> dynamic)?\n
override var onplaying: ((Event) -> dynamic)?\n override var onprogress: ((ProgressEvent) -> dynamic)?\n
override var onratechange: ((Event) -> dynamic)?\n override var onreset: ((Event) -> dynamic)?\n override var
onresize: ((Event) -> dynamic)?\n override var onscroll: ((Event) -> dynamic)?\n override var onseeked:
((Event) -> dynamic)?\n override var onseeking: ((Event) -> dynamic)?\n override var onselect: ((Event) ->
dynamic)?\n override var onshow: ((Event) -> dynamic)?\n override var onstalled: ((Event) -> dynamic)?\n
override var onsubmit: ((Event) -> dynamic)?\n override var onsuspend: ((Event) -> dynamic)?\n override var
ontimeupdate: ((Event) -> dynamic)?\n override var ontoggle: ((Event) -> dynamic)?\n override var
onvolumechange: ((Event) -> dynamic)?\n override var onwaiting: ((Event) -> dynamic)?\n override var
ongotpointercapture: ((PointerEvent) -> dynamic)?\n override var onlostpointercapture: ((PointerEvent) ->
dynamic)?\n override var onpointerdown: ((PointerEvent) -> dynamic)?\n override var onpointermove:
((PointerEvent) -> dynamic)?\n override var onpointerup: ((PointerEvent) -> dynamic)?\n override var
onpointercancel: ((PointerEvent) -> dynamic)?\n override var onpointerover: ((PointerEvent) -> dynamic)?\n
override var onpointerout: ((PointerEvent) -> dynamic)?\n override var onpointerenter: ((PointerEvent) ->
dynamic)?\n override var onpointerleave: ((PointerEvent) -> dynamic)?\n override var oncopy:
((ClipboardEvent) -> dynamic)?\n override var oncut: ((ClipboardEvent) -> dynamic)?\n override var onpaste:
((ClipboardEvent) -> dynamic)?\n override var contentEditable: String\n override val isContentEditable:
Boolean\n override val style: CSSStyleDeclaration\n override val children: HTMLCollection\n override val
firstElementChild: Element?\n override val lastElementChild: Element?\n override val childElementCount: Int\n
 override val previousElementSibling: Element?\n override val nextElementSibling: Element?\n override val
assignedSlot: HTMLSlotElement?\n override fun prepend(vararg nodes: dynamic)\n override fun append(vararg
nodes: dynamic)\n override fun querySelector(selectors: String): Element?\n override fun
querySelectorAll(selectors: String): NodeList\n override fun before(vararg nodes: dynamic)\n override fun
after(vararg nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n override fun remove()\n
override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n override
fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMQuad\n override fun convertRectFromNode(rect: DOMRectReadOnly, from:
dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun
convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* =
definedExternally */): DOMPoint\n\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n\n public external interface
UnionElementOrHTMLCollection\n public external interface UnionElementOrRadioNodeList\n public external
interface UnionHTMLOptGroupElementOrHTMLOptionElement\n public external interface

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UnionAudioTrackOrTextTrackOrVideoTrack\n\npublic external interface UnionElementOrMouseEvent\n\npublic external interface UnionMessagePortOrWindowProxy\n\npublic external interface MediaProvider\n\npublic external interface RenderingContext\n\npublic external interface HTMLOrSVGImageElement : CanvasImageSource\n\npublic external interface CanvasImageSource : ImageBitmapSource\n\npublic external interface ImageBitmapSource\n\npublic external interface HTMLOrSVGScriptElement\n\n/\* please, don't implement this interface!

```
\n@JsName("null")\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@JsName("null")\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 CanPlayTypeResult.Companion.PROBABLY: CanPlayTypeResult get() = "probably".asDynamic().unsafeCast<CanPlayTypeResult>()\n\n/ please, don't implement this interface!
```

```
\n@JsName("null")\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@JsName("null")\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@JsName("null")\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@JsName("null")\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@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\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@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\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@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic
external interface CanvasLineJoin {\n companion object\n}\n\npublic inline val
CanvasLineJoin.Companion.ROUND: CanvasLineJoin get() =
\"round\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val CanvasLineJoin.Companion.BEVEL:
CanvasLineJoin get() = \"bevel\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val
CanvasLineJoin.Companion.MITER: CanvasLineJoin get() =
\"miter\".asDynamic().unsafeCast<CanvasLineJoin>()\n\n/* please, don't implement this interface!
*\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface CanvasTextAlign {\n companion object\n}\n\npublic inline val CanvasTextAlign.Companion.START:
CanvasTextAlign get() = \"start\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.END: CanvasTextAlign get() =
\"end\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.LEFT:
CanvasTextAlign get() = \"left\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.RIGHT: CanvasTextAlign get() =
\"right\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val
CanvasTextAlign.Companion.CENTER: CanvasTextAlign get() =
\"center\".asDynamic().unsafeCast<CanvasTextAlign>()\n\n/* please, don't implement this interface!
*\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface CanvasTextBaseline {\n companion object\n}\n\npublic inline val CanvasTextBaseline.Companion.TOP:
CanvasTextBaseline get() = \"top\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.HANGING: CanvasTextBaseline get() =
\"hanging\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.MIDDLE: CanvasTextBaseline get() =
\"middle\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.ALPHABETIC: CanvasTextBaseline get() =
\"alphabetic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.IDEOGRAPHIC: CanvasTextBaseline get() =
\"ideographic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val
CanvasTextBaseline.Companion.BOTTOM: CanvasTextBaseline get() =
\"bottom\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\n/* please, don't implement this interface!

```

```

*\n@jsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface CanvasDirection {\n companion object\n}\n\npublic inline val CanvasDirection.Companion.LTR:
CanvasDirection get() = "ltr".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val
CanvasDirection.Companion.RTL: CanvasDirection get() =
"rtl".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val CanvasDirection.Companion.INHERIT:
CanvasDirection get() = "inherit".asDynamic().unsafeCast<CanvasDirection>()\n\n/* please, don't implement this
interface! */\n@jsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic
external interface ScrollRestoration {\n companion object\n}\n\npublic inline val
ScrollRestoration.Companion.AUTO: ScrollRestoration get() =
"auto".asDynamic().unsafeCast<ScrollRestoration>()\n\npublic inline val
ScrollRestoration.Companion.MANUAL: ScrollRestoration get() =
"manual".asDynamic().unsafeCast<ScrollRestoration>()\n\n/* please, don't implement this interface!
*/\n@jsName("null")\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@jsName("null")\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@jsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface ColorSpaceConversion {\n companion object\n}\n\npublic inline val
ColorSpaceConversion.Companion.NONE: ColorSpaceConversion get() =
"none".asDynamic().unsafeCast<ColorSpaceConversion>()\n\npublic inline val
ColorSpaceConversion.Companion.DEFAULT: ColorSpaceConversion get() =
"default".asDynamic().unsafeCast<ColorSpaceConversion>()\n\n/* please, don't implement this interface!
*/\n@jsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface ResizeQuality {\n companion object\n}\n\npublic inline val ResizeQuality.Companion.PIXELATED:
ResizeQuality get() = "pixelated".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val
ResizeQuality.Companion.LOW: ResizeQuality get() =
"low".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val ResizeQuality.Companion.MEDIUM:
ResizeQuality get() = "medium".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val
ResizeQuality.Companion.HIGH: ResizeQuality get() = "high".asDynamic().unsafeCast<ResizeQuality>()\n\n/*
please, don't implement this interface!
*/\n@jsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface BinaryType {\n companion object\n}\n\npublic inline val BinaryType.Companion.BLOB: BinaryType
get() = "blob".asDynamic().unsafeCast<BinaryType>()\n\npublic inline val
BinaryType.Companion.ARRAYBUFFER: BinaryType get() =
"arraybuffer".asDynamic().unsafeCast<BinaryType>()\n\n/* please, don't implement this interface!
*/\n@jsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface WorkerType {\n companion object\n}\n\npublic inline val WorkerType.Companion.CLASSIC:
WorkerType get() = "classic".asDynamic().unsafeCast<WorkerType>()\n\npublic inline val
WorkerType.Companion.MODULE: WorkerType get() =
"module".asDynamic().unsafeCast<WorkerType>()\n\n/* please, don't implement this interface!

```

```

*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface ShadowRootMode {\n companion object\n}\n\npublic inline val ShadowRootMode.Companion.OPEN:
ShadowRootMode get() = "open".asDynamic().unsafeCast<ShadowRootMode>()\n\npublic inline val
ShadowRootMode.Companion.CLOSED: ShadowRootMode get() =
"closed".asDynamic().unsafeCast<ShadowRootMode>()\n\n/* please, don't implement this interface!
*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface ScrollBehavior {\n companion object\n}\n\npublic inline val ScrollBehavior.Companion.AUTO:
ScrollBehavior get() = "auto".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val
ScrollBehavior.Companion.INSTANT: ScrollBehavior get() =
"instant".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val ScrollBehavior.Companion.SMOOTH:
ScrollBehavior get() = "smooth".asDynamic().unsafeCast<ScrollBehavior>()\n\n/* please, don't implement this
interface! *\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic
external interface ScrollLogicalPosition {\n companion object\n}\n\npublic inline val
ScrollLogicalPosition.Companion.START: ScrollLogicalPosition get() =
"start".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.CENTER: ScrollLogicalPosition get() =
"center".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.END: ScrollLogicalPosition get() =
"end".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.NEAREST: ScrollLogicalPosition get() =
"nearest".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\n/* please, don't implement this interface!
*\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external
interface CSSBoxType {\n companion object\n}\n\npublic inline val CSSBoxType.Companion.MARGIN:
CSSBoxType get() = "margin".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val
CSSBoxType.Companion.BORDER: CSSBoxType get() =
"border".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val CSSBoxType.Companion.PADDING:
CSSBoxType get() = "padding".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val
CSSBoxType.Companion.CONTENT: CSSBoxType get() =
"content".asDynamic().unsafeCast<CSSBoxType>()
}

/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n@n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n//
See github.com/kotlin/dukat for details\n\npackage org.w3c.fetch\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.files.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[Headers](https://developer.mozilla.org/en/docs/Web/API/Headers) to Kotlin\n *\n@npublic external open class
Headers(init: dynamic = definedExternally) {\n fun append(name: String, value: String)\n fun delete(name:
String)\n fun get(name: String): String?\n fun has(name: String): Boolean\n fun set(name: String, value:
String)\n}\n\n/**\n * Exposes the JavaScript [Body](https://developer.mozilla.org/en/docs/Web/API/Body) to
Kotlin\n *\n@npublic external interface Body {\n val bodyUsed: Boolean\n fun arrayBuffer():
Promise<ArrayBuffer>\n fun blob(): Promise<Blob>\n fun formData(): Promise<FormData>\n fun json():
Promise<Any?>\n fun text(): Promise<String>\n}\n\n/**\n * Exposes the JavaScript
[Request](https://developer.mozilla.org/en/docs/Web/API/Request) to Kotlin\n *\n@npublic external open class
Request(input: dynamic, init: RequestInit = definedExternally) : Body {\n open val method: String\n open val
url: String\n open val headers: Headers\n open val type: RequestType\n open val destination:
RequestDestination\n open val referrer: String\n open val referrerPolicy: dynamic\n open val mode:
RequestMode\n open val credentials: RequestCredentials\n open val cache: RequestCache\n open val redirect:
RequestRedirect\n open val integrity: String\n open val keepalive: Boolean\n override val bodyUsed:
Boolean\n fun clone(): Request\n override fun arrayBuffer(): Promise<ArrayBuffer>\n override fun blob():
Promise<Blob>\n override fun formData(): Promise<FormData>\n override fun json(): Promise<Any?>\n

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override fun text(): Promise<String>\n}\n\npublic external interface RequestInit {\n var method: String?\n get() = definedExternally\n set(value) = definedExternally\n var headers: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var body: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var referrer: String?\n get() = definedExternally\n set(value) = definedExternally\n var referrerPolicy: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var mode: RequestMode?\n get() = definedExternally\n set(value) = definedExternally\n var credentials: RequestCredentials?\n get() = definedExternally\n set(value) = definedExternally\n var cache: RequestCache?\n get() = definedExternally\n set(value) = definedExternally\n var redirect: RequestRedirect?\n get() = definedExternally\n set(value) = definedExternally\n var integrity: String?\n get() = definedExternally\n set(value) = definedExternally\n var keepalive: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var window: Any?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\n "INVISIBLE_REFERENCE",\n "INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun RequestInit(method: String? = undefined, headers: dynamic = undefined, body: dynamic = undefined, referrer: String? = undefined, referrerPolicy: dynamic = undefined, mode: RequestMode? = undefined, credentials: RequestCredentials? = undefined, cache: RequestCache? = undefined, redirect: RequestRedirect? = undefined, integrity: String? = undefined, keepalive: Boolean? = undefined, window: Any? = undefined): RequestInit {\n val o = js("{}")\n o["method"] = method\n o["headers"] = headers\n o["body"] = body\n o["referrer"] = referrer\n o["referrerPolicy"] = referrerPolicy\n o["mode"] = mode\n o["credentials"] = credentials\n o["cache"] = cache\n o["redirect"] = redirect\n o["integrity"] = integrity\n o["keepalive"] = keepalive\n o["window"] = window\n return o\n}\n\n/**\n * Exposes the JavaScript [Response](https://developer.mozilla.org/en/docs/Web/API/Response) to Kotlin\n */\npublic external open class Response(body: dynamic = definedExternally, init: ResponseInit = definedExternally) : Body {\n open val type: ResponseType\n open val url: String\n open val redirected: Boolean\n open val status: Short\n open val ok: Boolean\n open val statusText: String\n open val headers: Headers\n open val body: dynamic\n open val trailer: Promise<Headers>\n override val bodyUsed: Boolean\n fun clone(): Response\n override fun arrayBuffer(): Promise<ArrayBuffer>\n override fun blob(): Promise<Blob>\n override fun formData(): Promise<FormData>\n override fun json(): Promise<Any?>\n override fun text(): Promise<String>\n}\n\ncompanion 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@Suppress(\n "INVISIBLE_REFERENCE",\n "INVISIBLE_MEMBER")\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@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface RequestType {\n companion object\n}\n\npublic inline val RequestType.Companion.EMPTY: RequestType\nget() = ""\n\npublic inline val RequestType.Companion.AUDIO: RequestType\nget() = "audio"\n\npublic inline val RequestType.Companion.FONT: RequestType\nget() = "font"\n\npublic inline val RequestType.Companion.IMAGE: RequestType\nget() = "image"\n\npublic inline val RequestType.Companion.SCRIPT: RequestType\nget() = "script"\n\npublic inline val RequestType.Companion.STYLE: RequestType\nget() = "style"\n\npublic inline val RequestType.Companion.TRACK:

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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\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\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
RequestDestination.Companion.WORKER: RequestDestination get() =
\"worker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val
RequestDestination.Companion.XSLT: RequestDestination get() =
\"xslt\".asDynamic().unsafeCast<RequestDestination>()\n\n/* please, don't implement this interface!
*/\n\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface RequestMode {\n companion object\n}\n\npublic inline val RequestMode.Companion.NAVIGATE:
RequestMode get() = \"navigate\".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val
RequestMode.Companion.SAME_ORIGIN: RequestMode get() = \"same-
origin\".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val RequestMode.Companion.NO_CORS:
RequestMode get() = \"no-cors\".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val
RequestMode.Companion.CORS: RequestMode get() = \"cors\".asDynamic().unsafeCast<RequestMode>()\n\n/*
please, don't implement this interface!
*/\n\n@JsName(\"null\")\n@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

```



```

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/MediaTrackSupportedConstrain
ts) to Kotlin\n */\npublic external interface MediaTrackSupportedConstraints {\n var width: Boolean? /* = true
/\n get() = definedExternally\n set(value) = definedExternally\n var height: Boolean? / = true */\n
get() = definedExternally\n set(value) = definedExternally\n var aspectRatio: Boolean? /* = true */\n get()
= definedExternally\n set(value) = definedExternally\n var frameRate: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var facingMode: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var resizeMode: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var volume: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var sampleRate: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var sampleSize: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var echoCancellation: Boolean? /* = true */\n get()
= definedExternally\n set(value) = definedExternally\n var autoGainControl: Boolean? /* = true */\n get()
= definedExternally\n set(value) = definedExternally\n var noiseSuppression: Boolean? /* = true */\n
get() = definedExternally\n set(value) = definedExternally\n var latency: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var channelCount: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var deviceId: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n var groupId: Boolean? /* = true */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun
MediaTrackSupportedConstraints(width: Boolean? = true, height: Boolean? = true, aspectRatio: Boolean? = true,
frameRate: Boolean? = true, facingMode: Boolean? = true, resizeMode: Boolean? = true, volume: Boolean? = true,
sampleRate: Boolean? = true, sampleSize: Boolean? = true, echoCancellation: Boolean? = true, autoGainControl:
Boolean? = true, noiseSuppression: Boolean? = true, latency: Boolean? = true, channelCount: Boolean? = true,
deviceId: Boolean? = true, groupId: Boolean? = true): MediaTrackSupportedConstraints {\n val o = js(\"({})\")\n
o[\"width\"] = width\n o[\"height\"] = height\n o[\"aspectRatio\"] = aspectRatio\n o[\"frameRate\"] =
frameRate\n o[\"facingMode\"] = facingMode\n o[\"resizeMode\"] = resizeMode\n o[\"volume\"] = volume\n
o[\"sampleRate\"] = sampleRate\n o[\"sampleSize\"] = sampleSize\n o[\"echoCancellation\"] =
echoCancellation\n o[\"autoGainControl\"] = autoGainControl\n o[\"noiseSuppression\"] = noiseSuppression\n
o[\"latency\"] = latency\n o[\"channelCount\"] = channelCount\n o[\"deviceId\"] = deviceId\n o[\"groupId\"] =
groupId\n return o\n}\n\npublic external interface MediaTrackCapabilities {\n var width: ULongRange?\n
get() = definedExternally\n set(value) = definedExternally\n var height: ULongRange?\n get() =
definedExternally\n set(value) = definedExternally\n var aspectRatio: DoubleRange?\n get() =
definedExternally\n set(value) = definedExternally\n var frameRate: DoubleRange?\n get() =
definedExternally\n set(value) = definedExternally\n var facingMode: Array<String>?\n get() =
definedExternally\n set(value) = definedExternally\n var resizeMode: Array<String>?\n get() =
definedExternally\n set(value) = definedExternally\n var volume: DoubleRange?\n get() =
definedExternally\n set(value) = definedExternally\n var sampleRate: ULongRange?\n get() =
definedExternally\n set(value) = definedExternally\n var sampleSize: ULongRange?\n get() =
definedExternally\n set(value) = definedExternally\n var echoCancellation: Array<Boolean>?\n get() =
definedExternally\n set(value) = definedExternally\n var autoGainControl: Array<Boolean>?\n get() =
definedExternally\n set(value) = definedExternally\n var noiseSuppression: Array<Boolean>?\n get() =
definedExternally\n set(value) = definedExternally\n var latency: DoubleRange?\n get() =
definedExternally\n set(value) = definedExternally\n var channelCount: ULongRange?\n get() =
definedExternally\n set(value) = definedExternally\n var deviceId: String?\n get() = definedExternally\n
set(value) = definedExternally\n var groupId: String?\n get() = definedExternally\n set(value) =

```

```

definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun 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
*/\n\npublic external interface MediaTrackConstraints : MediaTrackConstraintSet {\n var advanced:
Array<MediaTrackConstraintSet>?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\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 {\n var width: dynamic\n get() = definedExternally\n set(value) =
definedExternally\n var height: dynamic\n get() = definedExternally\n set(value) = definedExternally\n
var aspectRatio: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var frameRate:
dynamic\n get() = definedExternally\n set(value) = definedExternally\n var facingMode: dynamic\n
get() = definedExternally\n set(value) = definedExternally\n var resizeMode: dynamic\n get() =
definedExternally\n set(value) = definedExternally\n var volume: dynamic\n get() = definedExternally\n
set(value) = definedExternally\n var sampleRate: dynamic\n get() = definedExternally\n set(value) =
definedExternally\n var sampleSize: dynamic\n get() = definedExternally\n set(value) =
definedExternally\n var echoCancellation: dynamic\n get() = definedExternally\n set(value) =
definedExternally\n var autoGainControl: dynamic\n get() = definedExternally\n set(value) =
definedExternally\n var noiseSuppression: dynamic\n get() = definedExternally\n set(value) =
definedExternally\n var latency: dynamic\n get() = definedExternally\n set(value) = definedExternally\n
var channelCount: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var deviceId:
dynamic\n get() = definedExternally\n set(value) = definedExternally\n var groupId: dynamic\n
get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackConstraintSet(width:
dynamic = undefined, height: dynamic = undefined, aspectRatio: dynamic = undefined, frameRate: dynamic =

```

undefined, facingMode: dynamic = undefined, resizeMode: dynamic = undefined, volume: dynamic = undefined, sampleRate: dynamic = undefined, sampleSize: dynamic = undefined, echoCancellation: dynamic = undefined, autoGainControl: dynamic = undefined, noiseSuppression: dynamic = undefined, latency: dynamic = undefined, channelCount: dynamic = undefined, deviceId: dynamic = undefined, groupId: dynamic = undefined):

```
MediaTrackConstraintSet {\n val o = js("{}")\n o["width"] = width\n o["height"] = height\n o["aspectRatio"] = aspectRatio\n o["frameRate"] = frameRate\n o["facingMode"] = facingMode\n o["resizeMode"] = resizeMode\n o["volume"] = volume\n o["sampleRate"] = sampleRate\n o["sampleSize"] = sampleSize\n o["echoCancellation"] = echoCancellation\n o["autoGainControl"] = autoGainControl\n o["noiseSuppression"] = noiseSuppression\n o["latency"] = latency\n o["channelCount"] = channelCount\n o["deviceId"] = deviceId\n o["groupId"] = groupId\n return o\n}\n\n/**\n * Exposes the JavaScript
```

```
[MediaTrackSettings](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSettings) to Kotlin\n\n*\n\npublic external interface MediaTrackSettings {\n var width: Int?\n get() = definedExternally\n set(value) = definedExternally\n var height: Int?\n get() = definedExternally\n set(value) = definedExternally\n var aspectRatio: Double?\n get() = definedExternally\n set(value) = definedExternally\n var frameRate: Double?\n get() = definedExternally\n set(value) = definedExternally\n var facingMode: String?\n get() = definedExternally\n set(value) = definedExternally\n var resizeMode: String?\n get() = definedExternally\n set(value) = definedExternally\n var volume: Double?\n get() = definedExternally\n set(value) = definedExternally\n var sampleRate: Int?\n get() = definedExternally\n set(value) = definedExternally\n var sampleSize: Int?\n get() = definedExternally\n set(value) = definedExternally\n var echoCancellation: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var autoGainControl: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var noiseSuppression: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var latency: Double?\n get() = definedExternally\n set(value) = definedExternally\n var channelCount: Int?\n get() = definedExternally\n set(value) = definedExternally\n var deviceId: String?\n get() = definedExternally\n set(value) = definedExternally\n var groupId: String?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
```

```
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\n\npublic inline fun MediaTrackSettings(width: Int? = undefined, height: Int? = undefined, aspectRatio: Double? = undefined, frameRate: Double? = undefined, facingMode: String? = undefined, resizeMode: String? = undefined, volume: Double? = undefined, sampleRate: Int? = undefined, sampleSize: Int? = undefined, echoCancellation: Boolean? = undefined, autoGainControl: Boolean? = undefined, noiseSuppression: Boolean? = undefined, latency: Double? = undefined, channelCount: Int? = undefined, deviceId: String? = undefined, groupId: String? = undefined): MediaTrackSettings {\n val o = js("{}")\n o["width"] = width\n o["height"] = height\n o["aspectRatio"] = aspectRatio\n o["frameRate"] = frameRate\n o["facingMode"] = facingMode\n o["resizeMode"] = resizeMode\n o["volume"] = volume\n o["sampleRate"] = sampleRate\n o["sampleSize"] = sampleSize\n o["echoCancellation"] = echoCancellation\n o["autoGainControl"] = autoGainControl\n o["noiseSuppression"] = noiseSuppression\n o["latency"] = latency\n o["channelCount"] = channelCount\n o["deviceId"] = deviceId\n o["groupId"] = groupId\n return o\n}\n\n/**\n * Exposes the JavaScript
```

```
[MediaStreamTrackEvent](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrackEvent) to Kotlin\n\n*\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 public external interface MediaStreamTrackEventInit : EventInit {\n var track: MediaStreamTrack?\n }\n\n @Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\n @kotlin.internal.InlineOnly\n\n public 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 }\n\n}
```

```

o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\npublic external open class
OverconstrainedErrorEvent(type: String, eventInitDict: OverconstrainedErrorEventInit) : Event {\n open val error:
dynamic\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val
AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface
OverconstrainedErrorEventInit : EventInit {\n var error: dynamic /* = null */\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\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 */\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 */\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 */\npublic external interface MediaStreamConstraints {\n var video: dynamic /* = false */\n get() =
definedExternally\n set(value) = definedExternally\n var audio: dynamic /* = false */\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun MediaStreamConstraints(video:
dynamic = false, audio: dynamic = false): MediaStreamConstraints {\n val o = js("{}")\n o["video"] =
video\n o["audio"] = audio\n return o\n}\n\npublic external interface ConstrainingPattern {\n var
onoverconstrained: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n
fun getCapabilities(): Capabilities\n fun getConstraints(): Constraints\n fun getSettings(): Settings\n fun
applyConstraints(constraints: Constraints = definedExternally): Promise<Unit>\n}\n\n/**\n * Exposes the
JavaScript [DoubleRange](https://developer.mozilla.org/en/docs/Web/API/DoubleRange) to Kotlin\n */\npublic
external interface DoubleRange {\n var max: Double?\n get() = definedExternally\n set(value) =
definedExternally\n var min: Double?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleRange(max: Double? =
undefined, min: Double? = undefined): DoubleRange {\n val o = js("{}")\n o["max"] = max\n o["min"] =
min\n return o\n}\n\npublic external interface ConstrainDoubleRange : DoubleRange {\n var exact: Double?\n
get() = definedExternally\n set(value) = definedExternally\n var ideal: Double?\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@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@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange(max: Int? = undefined,
min: Int? = undefined): ULongRange {\n val o = js("{}")\n o["max"] = max\n o["min"] = min\n return
o\n}\n\npublic external interface ConstrainULongRange : ULongRange {\n var exact: Int?\n get() =
definedExternally\n set(value) = definedExternally\n var ideal: Int?\n get() = definedExternally\n
}

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set(value) = definedExternally\n}\n\n@Suppress(\\"INVISIBLE_REFERENCE\\",
\\"INVISIBLE_MEMBER\\")\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainULongRange(exact: Int? =
undefined, ideal: Int? = undefined, max: Int? = undefined, min: Int? = undefined): ConstrainULongRange {\n val o
= js(\\"({})\\")\n o[\"exact\"] = exact\n o[\"ideal\"] = ideal\n o[\"max\"] = max\n o[\"min\"] = min\n return
o\n}\n\n/*\n * Exposes the JavaScript
[ConstrainBooleanParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainBooleanParameters) to
Kotlin\n * \npublic external interface ConstrainBooleanParameters {\n var exact: Boolean?\n get() =
definedExternally\n set(value) = definedExternally\n var ideal: Boolean?\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress(\\"INVISIBLE_REFERENCE\\",
\\"INVISIBLE_MEMBER\\")\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainBooleanParameters(exact:
Boolean? = undefined, ideal: Boolean? = undefined): ConstrainBooleanParameters {\n val o = js(\\"({})\\")\n
o[\"exact\"] = exact\n o[\"ideal\"] = ideal\n return o\n}\n\n/*\n * Exposes the JavaScript
[ConstrainDOMStringParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainDOMStringParameters)
to Kotlin\n * \npublic external interface ConstrainDOMStringParameters {\n var exact: dynamic\n get() =
definedExternally\n set(value) = definedExternally\n var ideal: dynamic\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress(\\"INVISIBLE_REFERENCE\\",
\\"INVISIBLE_MEMBER\\")\n@kotlin.internal.InlineOnly\npublic inline fun
ConstrainDOMStringParameters(exact: dynamic = undefined, ideal: dynamic = undefined):
ConstrainDOMStringParameters {\n val o = js(\\"({})\\")\n o[\"exact\"] = exact\n o[\"ideal\"] = ideal\n return
o\n}\n\npublic external interface Capabilities\n@Suppress(\\"INVISIBLE_REFERENCE\\",
\\"INVISIBLE_MEMBER\\")\n@kotlin.internal.InlineOnly\npublic inline fun Capabilities(): Capabilities {\n val o
= js(\\"({})\\")\n return o\n}\n\npublic external interface Settings\n@Suppress(\\"INVISIBLE_REFERENCE\\",
\\"INVISIBLE_MEMBER\\")\n@kotlin.internal.InlineOnly\npublic inline fun Settings(): Settings {\n val o =
js(\\"({})\\")\n return o\n}\n\npublic external interface ConstraintSet\n@Suppress(\\"INVISIBLE_REFERENCE\\",
\\"INVISIBLE_MEMBER\\")\n@kotlin.internal.InlineOnly\npublic inline fun ConstraintSet(): ConstraintSet {\n
val o = js(\\"({})\\")\n return o\n}\n\npublic external interface Constraints : ConstraintSet {\n var advanced:
Array<ConstraintSet>?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\\"INVISIBLE_REFERENCE\\",
\\"INVISIBLE_MEMBER\\")\n@kotlin.internal.InlineOnly\npublic inline fun Constraints(advanced:
Array<ConstraintSet>? = undefined): Constraints {\n val o = js(\\"({})\\")\n o[\"advanced\"] = advanced\n
return o\n}\n\n/* please, don't implement this interface!
*\n@JsName(\\"null\\")\n@Suppress(\\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\\")\npublic external
interface MediaStreamTrackState {\n companion object\n}\n\npublic inline val
MediaStreamTrackState.Companion.LIVE: MediaStreamTrackState get() =
\\"live\\".asDynamic().unsafeCast<MediaStreamTrackState>()\n\npublic inline val
MediaStreamTrackState.Companion.ENDED: MediaStreamTrackState get() =
\\"ended\\".asDynamic().unsafeCast<MediaStreamTrackState>()\n\n/* please, don't implement this interface!
*\n@JsName(\\"null\\")\n@Suppress(\\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\\")\npublic external
interface VideoFacingModeEnum {\n companion object\n}\n\npublic inline val
VideoFacingModeEnum.Companion.USER: VideoFacingModeEnum get() =
\\"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@JsName(\\"null\\")\n@Suppress(\\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\\")\npublic external

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interface VideoResizeModeEnum {\n companion object\n}\n\npublic inline val
VideoResizeModeEnum.Companion.NONE: VideoResizeModeEnum get() =
\"none\".asDynamic().unsafeCast<VideoResizeModeEnum>()\n\npublic inline val
VideoResizeModeEnum.Companion.CROP_AND_SCALE: VideoResizeModeEnum get() = \"crop-and-
scale\".asDynamic().unsafeCast<VideoResizeModeEnum>()\n\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface MediaDeviceKind {\n companion object\n}\n\npublic inline val
MediaDeviceKind.Companion.AUDIOINPUT: MediaDeviceKind get() =
\"audioinput\".asDynamic().unsafeCast<MediaDeviceKind>()\n\npublic inline val
MediaDeviceKind.Companion.AUDIOOUTPUT: MediaDeviceKind get() =
\"audiooutput\".asDynamic().unsafeCast<MediaDeviceKind>()\n\npublic inline val
MediaDeviceKind.Companion.VIDEOINPUT: MediaDeviceKind get() =
\"videoinput\".asDynamic().unsafeCast<MediaDeviceKind>())\n\n/*\n\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n\n// See github.com/kotlin/dukat for details\n\n\npackage org.w3c.dom.mediasource\n\n\nimport
kotlin.js.*\n\nimport org.khronos.webgl.*\n\nimport org.w3c.dom.*\n\nimport org.w3c.dom.events.*\n\n\n/**\n\n * Exposes
the JavaScript [MediaSource](https://developer.mozilla.org/en/docs/Web/API/MediaSource) to Kotlin\n\n */\n\npublic
external open class MediaSource : EventTarget, MediaProvider {\n open val sourceBuffers: SourceBufferList\n\n open
val activeSourceBuffers: SourceBufferList\n\n open val readyState: ReadyState\n\n var duration: Double\n\n var
onSourceOpen: ((Event) -> dynamic)?\n\n var onSourceEnded: ((Event) -> dynamic)?\n\n var onSourceClose:
((Event) -> dynamic)?\n\n fun addSourceBuffer(type: String): SourceBuffer\n\n fun
removeSourceBuffer(sourceBuffer: SourceBuffer)\n\n fun endOfStream(error: EndOfStreamError =
definedExternally)\n\n fun setLiveSeekableRange(start: Double, end: Double)\n\n fun clearLiveSeekableRange()\n\n\n companion object {\n\n fun isTypeSupported(type: String): Boolean\n\n }\n\n\n\n/**\n\n * Exposes the JavaScript
[SourceBuffer](https://developer.mozilla.org/en/docs/Web/API/SourceBuffer) to Kotlin\n\n */\n\npublic external
abstract class SourceBuffer : EventTarget {\n open var mode: AppendMode\n\n open val updating: Boolean\n\n open
val buffered: TimeRanges\n\n open var timestampOffset: Double\n\n open val audioTracks: AudioTrackList\n\n open
val videoTracks: VideoTrackList\n\n open val textTracks: TextTrackList\n\n open var appendWindowStart:
Double\n\n open var appendWindowEnd: Double\n\n open var onUpdateStart: ((Event) -> dynamic)?\n\n open var
onUpdate: ((Event) -> dynamic)?\n\n open var onUpdateEnd: ((Event) -> dynamic)?\n\n open var onError: ((Event) ->
dynamic)?\n\n open var onAbort: ((Event) -> dynamic)?\n\n fun appendBuffer(data: dynamic)\n\n fun abort()\n\n fun
remove(start: Double, end: Double)\n\n}\n\n\n\n/**\n\n * Exposes the JavaScript
[SourceBufferList](https://developer.mozilla.org/en/docs/Web/API/SourceBufferList) to Kotlin\n\n */\n\npublic
external abstract class SourceBufferList : EventTarget {\n open val length: Int\n\n open var onAddSourceBuffer:
((Event) -> dynamic)?\n\n open var onRemoveSourceBuffer: ((Event) ->
dynamic)?\n\n}\n\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\npublic inline operator fun SourceBufferList.get(index:
Int): SourceBuffer? = asDynamic()[index]\n\n\n/* please, don't implement this interface!
*\n\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface ReadyState {\n companion object\n}\n\npublic inline val ReadyState.Companion.CLOSED: ReadyState
get() = \"closed\".asDynamic().unsafeCast<ReadyState>()\n\npublic inline val ReadyState.Companion.OPEN:
ReadyState get() = \"open\".asDynamic().unsafeCast<ReadyState>()\n\npublic inline val
ReadyState.Companion.ENDED: ReadyState get() = \"ended\".asDynamic().unsafeCast<ReadyState>()\n\n\n/*
please, don't implement this interface!
*\n\n\n@JsName(\"null\")\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface EndOfStreamError {\n companion object\n}\n\npublic inline val
EndOfStreamError.Companion.NETWORK: EndOfStreamError get() =

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\"network\".asDynamic().unsafeCast<EndOfStreamError>()\n\npublic inline val
EndOfStreamError.Companion.DECODE: EndOfStreamError get() =
\"decode\".asDynamic().unsafeCast<EndOfStreamError>()\n\n/* please, don't implement this interface!
*\n@JsName(\"null\")\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n\npublic external
interface AppendMode {\n companion object\n}\n\npublic inline val AppendMode.Companion.SEGMENTS:
AppendMode get() = \"segments\".asDynamic().unsafeCast<AppendMode>()\n\npublic inline val
AppendMode.Companion.SEQUENCE: AppendMode get() =
\"sequence\".asDynamic().unsafeCast<AppendMode>()\", \"/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n//
See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.pointerevents\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\n\npublic external interface
PointerEventInit : MouseEventInit {\n var pointerId: Int? /* = 0 */\n get() = definedExternally\n
set(value) = definedExternally\n var width: Double? /* = 1.0 */\n get() = definedExternally\n
set(value) = definedExternally\n var height: Double? /* = 1.0 */\n get() = definedExternally\n
set(value) = definedExternally\n var pressure: Float? /* = 0f */\n get() = definedExternally\n
set(value) = definedExternally\n var tangentialPressure: Float? /* = 0f */\n get() = definedExternally\n
set(value) = definedExternally\n var tiltX: Int? /* = 0 */\n get() = definedExternally\n
set(value) = definedExternally\n var tiltY: Int? /* = 0 */\n get() = definedExternally\n
set(value) = definedExternally\n var twist: Int? /* =
0 */\n get() = definedExternally\n set(value) = definedExternally\n var pointerType: String? /* = \"\" */\n
 get() = definedExternally\n set(value) = definedExternally\n var isPrimary: Boolean? /* = false */\n
 get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n\n@kotlin.internal.InlineOnly\n\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 *\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

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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 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code
is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS
FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage
org.w3c.dom.svg\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.css.*\n\n/**\n * Exposes the JavaScript
[SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin\n */\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@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\npublic inline fun SVGBoundingBoxOptions(fill:
Boolean? = true, stroke: Boolean? = false, markers: Boolean? = false, clipped: Boolean? = false):
SVGBoundingBoxOptions {\n val o = js("{}")\n o["fill"] = fill\n o["stroke"] = stroke\n o["markers"]
= markers\n o["clipped"] = clipped\n return o\n }\n\n/**\n * Exposes the JavaScript
[SVGGraphicsElement](https://developer.mozilla.org/en/docs/Web/API/SVGGraphicsElement) to Kotlin\n
*/\n\npublic external abstract class SVGGraphicsElement : SVGElement, SVGTests {\n open val transform:
SVGAnimatedTransformList\n fun getBBox(options: SVGBoundingBoxOptions = definedExternally):
DOMRect\n fun getCTM(): DOMMatrix?\n fun getScreenCTM(): DOMMatrix?\n\n companion object {\n
val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n
val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n
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
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\npublic 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:

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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
[SVGNumber](https://developer.mozilla.org/en/docs/Web/API/SVGNumber) to Kotlin\n *\npublic external
abstract class SVGNumber {\n open var value: Float\n}\n\n/**\n * Exposes the JavaScript
[SVGLength](https://developer.mozilla.org/en/docs/Web/API/SVGLength) to Kotlin\n *\npublic external abstract
class SVGLength {\n open val unitType: Short\n open var value: Float\n open var valueInSpecifiedUnits:
Float\n open var valueAsString: String\n fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits:
Float)\n fun convertToSpecifiedUnits(unitType: Short)\n\n companion object {\n val
SVG_LENGTHTYPE_UNKNOWN: Short\n val SVG_LENGTHTYPE_NUMBER: Short\n val
SVG_LENGTHTYPE_PERCENTAGE: Short\n val SVG_LENGTHTYPE_EMS: Short\n val
SVG_LENGTHTYPE_EXS: Short\n val SVG_LENGTHTYPE_PX: Short\n val
SVG_LENGTHTYPE_CM: Short\n val SVG_LENGTHTYPE_MM: Short\n val
SVG_LENGTHTYPE_IN: Short\n val SVG_LENGTHTYPE_PT: Short\n val SVG_LENGTHTYPE_PC:
Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAngle) to Kotlin\n *\npublic external abstract
class SVGAngle {\n open val unitType: Short\n open var value: Float\n open var valueInSpecifiedUnits:
Float\n open var valueAsString: String\n fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits:
Float)\n fun convertToSpecifiedUnits(unitType: Short)\n\n companion object {\n val
SVG_ANGLETYPE_UNKNOWN: Short\n val SVG_ANGLETYPE_UNSPECIFIED: Short\n val
SVG_ANGLETYPE_DEG: Short\n val SVG_ANGLETYPE_RAD: Short\n val
SVG_ANGLETYPE_GRAD: Short\n }\n}\n\npublic external abstract class SVGNameList {\n open val length:
Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: dynamic): dynamic\n fun
insertItemBefore(newItem: dynamic, index: Int): dynamic\n fun replaceItem(newItem: dynamic, index: Int):
dynamic\n fun removeItem(index: Int): dynamic\n fun appendItem(newItem: dynamic): dynamic\n fun
getItem(index: Int): dynamic\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNameList.get(index: Int):
dynamic = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNameList.set(index: Int,
newItem: dynamic) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGNumberList) to Kotlin\n *\npublic external
abstract class SVGNumberList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun
initialize(newItem: SVGNumber): SVGNumber\n fun insertItemBefore(newItem: SVGNumber, index: Int):
SVGNumber\n fun replaceItem(newItem: SVGNumber, index: Int): SVGNumber\n fun removeItem(index: Int):
SVGNumber\n fun appendItem(newItem: SVGNumber): SVGNumber\n fun getItem(index: Int):
SVGNumber\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNumberList.get(index:
Int): SVGNumber? = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNumberList.set(index:
Int, newItem: SVGNumber) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGLengthList) to Kotlin\n *\npublic external
abstract class SVGLengthList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun
initialize(newItem: SVGLength): SVGLength\n fun insertItemBefore(newItem: SVGLength, index: Int):

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SVGLength\n fun replaceItem(newItem: SVGLength, index: Int): SVGLength\n fun removeItem(index: Int):
SVGLength\n fun appendItem(newItem: SVGLength): SVGLength\n fun getItem(index: Int):
SVGLength\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGLengthList.get(index:
Int): SVGLength? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGLengthList.set(index: Int,
newItem: SVGLength) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGAnimatedBoolean](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedBoolean) to Kotlin\n
*/\npublic external abstract class SVGAnimatedBoolean {\n open var baseVal: Boolean\n open val animVal:
Boolean\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedEnumeration](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedEnumeration) to
Kotlin\n
*/\npublic external abstract class SVGAnimatedEnumeration {\n open var baseVal: Short\n open val
animVal: Short\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedInteger](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedInteger) to Kotlin\n
*/\npublic external abstract class SVGAnimatedInteger {\n open var baseVal: Int\n open val animVal:
Int\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedNumber](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumber) to Kotlin\n
*/\npublic external abstract class SVGAnimatedNumber {\n open var baseVal: Float\n open val animVal:
Float\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedLength](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLength) to Kotlin\n
*/\npublic external abstract class SVGAnimatedLength {\n open val baseVal: SVGLength\n open val animVal:
SVGLength\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedAngle) to Kotlin\n
*/\npublic external abstract class SVGAnimatedAngle {\n open val baseVal: SVGAngle\n open val animVal:
SVGAngle\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedString](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedString) to Kotlin\n
*/\npublic external abstract class SVGAnimatedString {\n open var baseVal: String\n open val animVal:
String\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedRect](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedRect)
to Kotlin\n
*/\npublic external abstract class SVGAnimatedRect {\n open val baseVal: DOMRect\n open val
animVal: DOMRectReadOnly\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumberList) to Kotlin\n
*/\npublic external abstract class SVGAnimatedNumberList {\n open val baseVal: SVGNumberList\n open val
animVal: SVGNumberList\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLengthList) to Kotlin\n
*/\npublic external abstract class SVGAnimatedLengthList {\n open val baseVal: SVGLengthList\n open val
animVal: SVGLengthList\n}\n\n/**\n * Exposes the JavaScript
[SVGStringList](https://developer.mozilla.org/en/docs/Web/API/SVGStringList) to Kotlin\n
*/\npublic external
abstract class SVGStringList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun
initialize(newItem: String): String\n fun insertItemBefore(newItem: String, index: Int): String\n fun
replaceItem(newItem: String, index: Int): String\n fun removeItem(index: Int): String\n fun
appendItem(newItem: String): String\n fun getItem(index: Int):
String\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGStringList.get(index:
Int): String? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGStringList.set(index: Int,
newItem: String) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript
[SVGUnitTypes](https://developer.mozilla.org/en/docs/Web/API/SVGUnitTypes) to Kotlin\n
*/\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface SVGUnitTypes

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{\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
[SVGTests](https://developer.mozilla.org/en/docs/Web/API/SVGTests) to Kotlin\n */\npublic external interface
SVGTests {\n val requiredExtensions: SVGStringList\n val systemLanguage: SVGStringList\n}\n\npublic
external interface SVGFitToViewBox {\n val viewBox: SVGAnimatedRect\n val preserveAspectRatio:
SVGAnimatedPreserveAspectRatio\n}\n\n/**\n * Exposes the JavaScript
[SVGZoomAndPan](https://developer.mozilla.org/en/docs/Web/API/SVGZoomAndPan) to Kotlin\n
*/\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\npublic external interface
SVGZoomAndPan {\n var zoomAndPan: Short\n\n companion object {\n val
SVG_ZOOMANDPAN_UNKNOWN: Short\n val SVG_ZOOMANDPAN_DISABLE: Short\n val
SVG_ZOOMANDPAN_MAGNIFY: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGURIReference](https://developer.mozilla.org/en/docs/Web/API/SVGURIReference) to Kotlin\n */\npublic
external interface SVGURIReference {\n val href: SVGAnimatedString\n}\n\n/**\n * Exposes the JavaScript
[SVGSVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGSVGElement) to Kotlin\n */\npublic
external abstract class SVGSVGElement : SVGGraphicsElement, SVGFitToViewBox, SVGZoomAndPan,
WindowEventHandlers {\n open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val
width: SVGAnimatedLength\n open val height: SVGAnimatedLength\n open var currentScale: Float\n open
val currentTranslate: DOMPointReadOnly\n fun getIntersectionList(rect: DOMRectReadOnly, referenceElement:
SVGElement?): NodeList\n fun getEnclosureList(rect: DOMRectReadOnly, referenceElement: SVGElement?):
NodeList\n fun checkIntersection(element: SVGElement, rect: DOMRectReadOnly): Boolean\n fun
checkEnclosure(element: SVGElement, rect: DOMRectReadOnly): Boolean\n fun deselectAll()\n fun
createSVGNumber(): SVGNumber\n fun createSVGLength(): SVGLength\n fun createSVGAngle():
SVGAngle\n fun createSVGPoint(): DOMPoint\n fun createSVGMatrix(): DOMMatrix\n fun
createSVGRect(): DOMRect\n fun createSVGTransform(): SVGTransform\n fun
createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform\n fun
getElementById(elementId: String): Element\n fun suspendRedraw(maxWaitMilliseconds: Int): Int\n fun
unsuspendRedraw(suspendHandleID: Int)\n fun unsuspendRedrawAll()\n fun forceRedraw()\n\n companion
object {\n val SVG_ZOOMANDPAN_UNKNOWN: Short\n val SVG_ZOOMANDPAN_DISABLE:
Short\n val SVG_ZOOMANDPAN_MAGNIFY: Short\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n 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
[SVGGEElement](https://developer.mozilla.org/en/docs/Web/API/SVGGEElement) to Kotlin\n */\npublic external
abstract class SVGGEElement : 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
 }\n}\n

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 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class
SVGUnknownElement : SVGGraphicsElement {\n companion object {\n val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGDefsElement](https://developer.mozilla.org/en/docs/Web/API/SVGDefsElement) to Kotlin\n */\npublic
external abstract class SVGDefsElement : SVGGraphicsElement {\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGDescElement](https://developer.mozilla.org/en/docs/Web/API/SVGDescElement) to Kotlin\n */\npublic
external abstract class SVGDescElement : SVGElement {\n companion object {\n val ELEMENT_NODE:
Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE:
Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGMetadataElement](https://developer.mozilla.org/en/docs/Web/API/SVGMetadataElement) to Kotlin\n
*/\npublic external abstract class SVGMetadataElement : SVGElement {\n companion object {\n val
ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGTitleElement](https://developer.mozilla.org/en/docs/Web/API/SVGTitleElement) to Kotlin\n */\npublic
external abstract class SVGTitleElement : SVGElement {\n companion object {\n val ELEMENT_NODE:
Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE:
Short\n

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Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGSymbolElement](https://developer.mozilla.org/en/docs/Web/API/SVGSymbolElement) to Kotlin\n */\npublic
external abstract class SVGSymbolElement : SVGGraphicsElement, SVGFitToViewBox {\n companion object
{\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val
ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGUseElement](https://developer.mozilla.org/en/docs/Web/API/SVGUseElement) to Kotlin\n */\npublic external
abstract class SVGUseElement : SVGGraphicsElement, SVGURIReference {\n open val x:
SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val
height: SVGAnimatedLength\n open val instanceRoot: SVGElement?\n open val animatedInstanceRoot:
SVGElement?\n\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
SVGUseElementShadowRoot : ShadowRoot {\n companion object {\n val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface
SVGElementInstance {\n val correspondingElement: SVGElement?\n get() = definedExternally\n val
correspondingUseElement: SVGUseElement?\n get() = definedExternally\n}\n\npublic external open class
ShadowAnimation(source: dynamic, newTarget: dynamic) {\n open val sourceAnimation: dynamic\n}\n\n/**\n *
Exposes the JavaScript [SVGSwitchElement](https://developer.mozilla.org/en/docs/Web/API/SVGSwitchElement)
to Kotlin\n */\npublic external abstract class SVGSwitchElement : SVGGraphicsElement {\n companion object

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{\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 */\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 */\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 */\npublic external abstract class SVGTransformList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: SVGTransform): SVGTransform\n fun insertItemBefore(newItem: SVGTransform, index: Int): SVGTransform\n fun replaceItem(newItem: SVGTransform, index: Int): SVGTransform\n fun removeItem(index: Int): SVGTransform\n fun appendItem(newItem: SVGTransform): SVGTransform\n fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform\n fun consolidate(): SVGTransform?\n fun getItem(index: Int): SVGTransform\n}\n\n@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGTransformList.get(index: Int): SVGTransform? = asDynamic()[index]\n\n@Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGTransformList.set(index: Int, newItem: SVGTransform) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript [SVGAnimatedTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedTransformList) to Kotlin\n */\npublic external abstract class SVGAnimatedTransformList {\n open val baseVal: SVGTransformList\n open val animVal: SVGTransformList\n}\n\n/**\n * Exposes the JavaScript [SVGPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGPreserveAspectRatio) to Kotlin\n */\npublic external abstract class SVGPreserveAspectRatio {\n open var align: Short\n open var meetOrSlice: Short\n\n companion object {\n val SVG_PRESERVEASPECTRATIO_UNKNOWN: Short\n val

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SVG\_PRESERVEASPECTRATIO\_NONE: Short\n val SVG\_PRESERVEASPECTRATIO\_XMINYMIN:  
 Short\n val SVG\_PRESERVEASPECTRATIO\_XMIDYMIN: Short\n val  
 SVG\_PRESERVEASPECTRATIO\_XMAXYMIN: Short\n val  
 SVG\_PRESERVEASPECTRATIO\_XMINYMID: Short\n val  
 SVG\_PRESERVEASPECTRATIO\_XMIDYMID: Short\n val  
 SVG\_PRESERVEASPECTRATIO\_XMAXYMID: Short\n val  
 SVG\_PRESERVEASPECTRATIO\_XMINYMAX: Short\n val  
 SVG\_PRESERVEASPECTRATIO\_XMIDYMAX: Short\n val  
 SVG\_PRESERVEASPECTRATIO\_XMAXYMAX: Short\n val SVG\_MEETORSlice\_UNKNOWN: Short\n  
 val SVG\_MEETORSlice\_MEET: Short\n val SVG\_MEETORSlice\_SLICE: Short\n } \n } \n \n /\*\* \n \*  
 Exposes the JavaScript  
 [SVGAnimatedPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPreserveAspect  
 Ratio) to Kotlin \n \* \n \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 \* \n \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 \* \n \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 \* \n \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  
 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
[SVGEllipseElement](https://developer.mozilla.org/en/docs/Web/API/SVGEllipseElement) to Kotlin\n *\npublic
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 *\npublic
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 *\npublic
external abstract class SVGMeshElement : SVGGeometryElement, SVGURIReference {\n companion object {\n
 val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedPoints](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPoints) to Kotlin\n *\npublic
external interface SVGAnimatedPoints {\n val points: SVGPointList\n val animatedPoints:
SVGPointList\n}\n\npublic external abstract class SVGPointList {\n open val length: Int\n open val
numberOfItems: Int\n fun clear()\n fun initialize(newItem: DOMPoint): DOMPoint\n fun
insertItemBefore(newItem: DOMPoint, index: Int): DOMPoint\n fun replaceItem(newItem: DOMPoint, index:
Int): DOMPoint\n fun removeItem(index: Int): DOMPoint\n fun appendItem(newItem: DOMPoint):
DOMPoint\n fun getItem(index: Int): DOMPoint\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGPointList.get(index: Int):
DOMPoint? = asDynamic()[index]\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGPointList.set(index: Int,
newItem: DOMPoint) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript

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[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\n TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:\n Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val\n COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val\n DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val\n DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript\n
[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\n TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE:\n Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val\n COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val\n DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val\n DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript\n
[SVGTextContentElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextContentElement) to Kotlin\n
*\npublic external abstract class SVGTextContentElement : SVGGraphicsElement {\n open val textLength:\n SVGAnimatedLength\n open val lengthAdjust: SVGAnimatedEnumeration\n fun getNumberOfChars(): Int\n fun getComputedTextLength(): Float\n fun getSubStringLength(charnum: Int, nchars: Int): Float\n fun\n getStartPositionOfChar(charnum: Int): DOMPoint\n fun getEndPositionOfChar(charnum: Int): DOMPoint\n fun\n getExtentOfChar(charnum: Int): DOMRect\n fun getRotationOfChar(charnum: Int): Float\n fun\n getCharNumAtPosition(point: DOMPoint): Int\n fun selectSubString(charnum: Int, nchars: Int)\n\n companion\n object {\n val LENGTHADJUST_UNKNOWN: Short\n val LENGTHADJUST_SPACING: Short\n\n val LENGTHADJUST_SPACINGANDGLYPHS: Short\n val ELEMENT_NODE: Short\n val\n ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val\n ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val\n PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val\n DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val\n DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val\n DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val\n DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript\n
[SVGTextPositioningElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPositioningElement) to\n
Kotlin\n
*\npublic external abstract class SVGTextPositioningElement : SVGTextContentElement {\n open val x:\n SVGAnimatedLengthList\n open val y: SVGAnimatedLengthList\n open val dx: SVGAnimatedLengthList\n\n open val dy: SVGAnimatedLengthList\n open val rotate: SVGAnimatedNumberList\n\n companion object {\n val LENGTHADJUST_UNKNOWN: Short\n val LENGTHADJUST_SPACING: Short\n val\n LENGTHADJUST_SPACINGANDGLYPHS: Short\n val ELEMENT_NODE: Short\n val\n ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val\n ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val\n

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PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val  
 DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val  
 DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val  
 DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n  
 val DOCUMENT\_POSITION\_FOLLOWING: Short\n val DOCUMENT\_POSITION\_CONTAINS: Short\n  
 val DOCUMENT\_POSITION\_CONTAINED\_BY: Short\n val  
 DOCUMENT\_POSITION\_IMPLEMENTATION\_SPECIFIC: Short\n } \n} \n \n /\*\* \n \* Exposes the JavaScript  
 [SVGTextElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextElement) to Kotlin \n \* \n public  
 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 public  
 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 public external abstract class SVGTextPathElement : SVGTextContentElement, SVGURIReference { \n open  
 val startOffset: SVGAnimatedLength \n open val method: SVGAnimatedEnumeration \n open val spacing:  
 SVGAnimatedEnumeration \n \n companion object { \n val TEXTPATH\_METHODTYPE\_UNKNOWN:  
 Short\n val TEXTPATH\_METHODTYPE\_ALIGN: Short\n val  
 TEXTPATH\_METHODTYPE\_STRETCH: Short\n val TEXTPATH\_SPACINGTYPE\_UNKNOWN: Short\n  
 val TEXTPATH\_SPACINGTYPE\_AUTO: Short\n val TEXTPATH\_SPACINGTYPE\_EXACT: Short\n  
 val LENGTHADJUST\_UNKNOWN: Short\n val LENGTHADJUST\_SPACING: Short\n val  
 LENGTHADJUST\_SPACINGANDGLYPHS: Short\n val ELEMENT\_NODE: Short\n val  
 ATTRIBUTE\_NODE: Short\n val TEXT\_NODE: Short\n val CDATA\_SECTION\_NODE: Short\n val  
 ENTITY\_REFERENCE\_NODE: Short\n val ENTITY\_NODE: Short\n val  
 PROCESSING\_INSTRUCTION\_NODE: Short\n val COMMENT\_NODE: Short\n val  
 DOCUMENT\_NODE: Short\n val DOCUMENT\_TYPE\_NODE: Short\n val  
 DOCUMENT\_FRAGMENT\_NODE: Short\n val NOTATION\_NODE: Short\n val  
 DOCUMENT\_POSITION\_DISCONNECTED: Short\n val DOCUMENT\_POSITION\_PRECEDING: Short\n

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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
[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
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

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*\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
[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
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n*\n * Exposes the JavaScript
[SVGStopElement](https://developer.mozilla.org/en/docs/Web/API/SVGStopElement) to Kotlin\n\n*\n\npublic
external abstract class SVGStopElement : SVGElement {\n open val offset: SVGAnimatedNumber\n\n

```

```

companion object {
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
 val DOCUMENT_FRAGMENT_NODE: Short
 val NOTATION_NODE: Short
 val DOCUMENT_POSITION_DISCONNECTED: Short
 val DOCUMENT_POSITION_PRECEDING: Short
 val DOCUMENT_POSITION_FOLLOWING: Short
 val DOCUMENT_POSITION_CONTAINS: Short
 val DOCUMENT_POSITION_CONTAINED_BY: Short
 val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
}

/** Exposes the JavaScript [SVGPatternElement](https://developer.mozilla.org/en/docs/Web/API/SVGPatternElement) to Kotlin */
public external abstract class SVGPatternElement : SVGElement, SVGFitToViewBox, SVGURIReference, SVGUnitTypes {
 open val patternUnits: SVGAnimatedEnumeration
 open val patternContentUnits: SVGAnimatedEnumeration
 open val patternTransform: SVGAnimatedTransformList
 open val x: SVGAnimatedLength
 open val y: SVGAnimatedLength
 open val width: SVGAnimatedLength
 open val height: SVGAnimatedLength

 companion object {
 val SVG_UNIT_TYPE_UNKNOWN: Short
 val SVG_UNIT_TYPE_USERSPACEONUSE: Short
 val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
 val DOCUMENT_FRAGMENT_NODE: Short
 val NOTATION_NODE: Short
 val DOCUMENT_POSITION_DISCONNECTED: Short
 val DOCUMENT_POSITION_PRECEDING: Short
 val DOCUMENT_POSITION_FOLLOWING: Short
 val DOCUMENT_POSITION_CONTAINS: Short
 val DOCUMENT_POSITION_CONTAINED_BY: Short
 val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
 }
}

public external abstract class SVGHatchElement : SVGElement {
 companion object {
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
 val DOCUMENT_FRAGMENT_NODE: Short
 val NOTATION_NODE: Short
 val DOCUMENT_POSITION_DISCONNECTED: Short
 val DOCUMENT_POSITION_PRECEDING: Short
 val DOCUMENT_POSITION_FOLLOWING: Short
 val DOCUMENT_POSITION_CONTAINS: Short
 val DOCUMENT_POSITION_CONTAINED_BY: Short
 val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
 }
}

public external abstract class SVGHatchpathElement : SVGElement {
 companion object {
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
 val DOCUMENT_FRAGMENT_NODE: Short
 val NOTATION_NODE: Short
 val DOCUMENT_POSITION_DISCONNECTED: Short
 val DOCUMENT_POSITION_PRECEDING: Short
 val DOCUMENT_POSITION_FOLLOWING: Short
 val DOCUMENT_POSITION_CONTAINS: Short
 val DOCUMENT_POSITION_CONTAINED_BY: Short
 val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
 }
}

/** Exposes the JavaScript [SVGCursorElement](https://developer.mozilla.org/en/docs/Web/API/SVGCursorElement) to Kotlin */
public external abstract class SVGCursorElement : SVGElement, SVGURIReference {
 open val x: SVGAnimatedLength
 open val y: SVGAnimatedLength

 companion object {
 val ELEMENT_NODE: Short
 val ATTRIBUTE_NODE: Short
 val TEXT_NODE: Short
 val CDATA_SECTION_NODE: Short
 val ENTITY_REFERENCE_NODE: Short
 val ENTITY_NODE: Short
 val PROCESSING_INSTRUCTION_NODE: Short
 val COMMENT_NODE: Short
 val DOCUMENT_NODE: Short
 val DOCUMENT_TYPE_NODE: Short
 val DOCUMENT_FRAGMENT_NODE: Short
 val NOTATION_NODE: Short
 val DOCUMENT_POSITION_DISCONNECTED: Short
 val DOCUMENT_POSITION_PRECEDING: Short
 val DOCUMENT_POSITION_FOLLOWING: Short
 val DOCUMENT_POSITION_CONTAINS: Short
 val DOCUMENT_POSITION_CONTAINED_BY: Short
 val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short
 }
}

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```

ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val
CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
 val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
 val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n } \n} \n \n /** \n * Exposes the JavaScript
[SVGScriptElement](https://developer.mozilla.org/en/docs/Web/API/SVGScriptElement) to Kotlin \n * \n public
external abstract class SVGScriptElement : SVGElement, SVGURIReference, HTMLOrSVGScriptElement { \n
open var type: String \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
[SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin \n * \n public external
abstract class SVGElement : SVGGraphicsElement, SVGURIReference { \n open val target:
SVGAnimatedString \n open val download: SVGAnimatedString \n open val rel: SVGAnimatedString \n open
val relList: SVGAnimatedString \n open val hreflang: SVGAnimatedString \n open val type:
SVGAnimatedString \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
[SVGViewElement](https://developer.mozilla.org/en/docs/Web/API/SVGViewElement) to Kotlin \n * \n public
external abstract class SVGViewElement : SVGElement, SVGFitToViewBox, SVGZoomAndPan { \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 * Copyright 2010-2021

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JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use 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.dom.*\nimport org.w3c.dom.events.*\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) : MediaPlayer, 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@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\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@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\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@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n\n@kotlin.internal.InlineOnly\n\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/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See
github.com/kotlin/dukat for details\n\npackage org.w3c.notifications\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.events.*\nimport org.w3c.workers.*\n\n/**\n * Exposes the JavaScript
[Notification](https://developer.mozilla.org/en/docs/Web/API/Notification) to Kotlin\n *\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

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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\n companion object {\n val
permission: NotificationPermission\n val maxActions: Int\n fun requestPermission(deprecatedCallback:
(NotificationPermission) -> Unit = definedExternally): Promise<NotificationPermission>\n }\n\n\npublic
external interface NotificationOptions {\n var dir: NotificationDirection? /* = NotificationDirection.AUTO */\n
get() = definedExternally\n set(value) = definedExternally\n var lang: String? /* = "" */\n get() =
definedExternally\n set(value) = definedExternally\n var body: String? /* = "" */\n get() =
definedExternally\n set(value) = definedExternally\n var tag: String? /* = "" */\n get() =
definedExternally\n set(value) = definedExternally\n var image: String?\n get() = definedExternally\n
set(value) = definedExternally\n var icon: String?\n get() = definedExternally\n set(value) =
definedExternally\n var badge: String?\n get() = definedExternally\n set(value) = definedExternally\n
var sound: String?\n get() = definedExternally\n set(value) = definedExternally\n var vibrate: dynamic\n
get() = definedExternally\n set(value) = definedExternally\n var timestamp: Number?\n get() =
definedExternally\n set(value) = definedExternally\n var renotify: Boolean? /* = false */\n get() =
definedExternally\n set(value) = definedExternally\n var silent: Boolean? /* = false */\n get() =
definedExternally\n set(value) = definedExternally\n var noscreen: Boolean? /* = false */\n get() =
definedExternally\n set(value) = definedExternally\n var requireInteraction: Boolean? /* = false */\n get()
= definedExternally\n set(value) = definedExternally\n var sticky: Boolean? /* = false */\n get() =
definedExternally\n set(value) = definedExternally\n var data: Any? /* = null */\n get() =
definedExternally\n set(value) = definedExternally\n var actions: Array<NotificationAction>? /* = arrayOf()
*/\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun NotificationOptions(dir:
NotificationDirection? = NotificationDirection.AUTO, lang: String? = \"\", body: String? = \"\", tag: String? = \"\",
image: String? = undefined, icon: String? = undefined, badge: String? = undefined, sound: String? = undefined,
vibrate: dynamic = undefined, timestamp: Number? = undefined, renotify: Boolean? = false, silent: Boolean? =
false, noscreen: Boolean? = false, requireInteraction: Boolean? = false, sticky: Boolean? = false, data: Any? = null,
actions: Array<NotificationAction>? = arrayOf()): NotificationOptions {\n val o = js(\"({})\")\n o[\"dir\"] = dir\n
o[\"lang\"] = lang\n o[\"body\"] = body\n o[\"tag\"] = tag\n o[\"image\"] = image\n o[\"icon\"] = icon\n
o[\"badge\"] = badge\n o[\"sound\"] = sound\n o[\"vibrate\"] = vibrate\n o[\"timestamp\"] = timestamp\n
o[\"renotify\"] = renotify\n o[\"silent\"] = silent\n o[\"noscreen\"] = noscreen\n o[\"requireInteraction\"] =
requireInteraction\n o[\"sticky\"] = sticky\n o[\"data\"] = data\n o[\"actions\"] = actions\n return
o\n}\n\n\npublic external interface NotificationAction {\n var action: String?\n var title: String?\n var icon:
String?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun NotificationAction(action: String?,
title: String?, icon: String? = undefined): NotificationAction {\n val o = js(\"({})\")\n o[\"action\"] = action\n
o[\"title\"] = title\n o[\"icon\"] = icon\n return o\n}\n\n\npublic external interface GetNotificationOptions {\n var
tag: String? /* = "" */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun GetNotificationOptions(tag: String? =
\" \"): GetNotificationOptions {\n val o = js(\"({})\")\n o[\"tag\"] = tag\n return o\n}\n\n\n**\n Exposes the
JavaScript [NotificationEvent](https://developer.mozilla.org/en/docs/Web/API/NotificationEvent) to Kotlin\n
*/\n\n\npublic external open class NotificationEvent(type: String, eventInitDict: NotificationEventInit) :
ExtendableEvent {\n open val notification: Notification\n open val action: String\n\n companion object {\n
val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val
BUBBLING_PHASE: Short\n }\n}\n\n\npublic external interface NotificationEventInit : ExtendableEventInit {\n
var notification: Notification?\n var action: String? /* = "" */\n get() = definedExternally\n set(value) =

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definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun NotificationEventInit(notification:
Notification?, action: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? =
false): NotificationEventInit {\n val o = js(\"({})\")\n o[\"notification\"] = notification\n o[\"action\"] =
action\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return
o}\n}\n/* please, don't implement this interface!
*\n\n@JsName(\"null\")\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@JsName(\"null\")\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 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n * \n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n\n//
See github.com/kotlin/dukat for details\n\npackage org.w3c.workers\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\nimport org.w3c.fetch.*\nimport
org.w3c.notifications.*\n\n/**\n * Exposes the JavaScript
[ServiceWorker](https://developer.mozilla.org/en/docs/Web/API/ServiceWorker) to Kotlin\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\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\n
*\n\npublic external abstract class ServiceWorkerContainer : EventTarget {\n open val controller:
ServiceWorker?\n open val ready: Promise<ServiceWorkerRegistration>\n open var oncontrollerchange:
((Event) -> dynamic)?\n open var onmessage: ((MessageEvent) -> dynamic)?\n fun register(scriptURL: String,
options: RegistrationOptions = definedExternally): Promise<ServiceWorkerRegistration>\n fun
getRegistration(clientURL: String = definedExternally): Promise<Any?>\n fun getRegistrations():
Promise<Array<ServiceWorkerRegistration>>\n fun startMessages()\n}\n\npublic external interface
RegistrationOptions {\n var scope: String?\n get() = definedExternally\n set(value) = definedExternally\n}

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var type: WorkerType? /* = WorkerType.CLASSIC */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\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 companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n
 }\n}\n\npublic external interface ServiceWorkerMessageEventInit : EventInit {\n var data: Any?\n get() =
definedExternally\n set(value) = definedExternally\n var origin: String?\n get() = definedExternally\n
set(value) = definedExternally\n var lastEventId: String?\n get() = definedExternally\n set(value) =
definedExternally\n var source: UnionMessagePortOrServiceWorker?\n get() = definedExternally\n
set(value) = definedExternally\n var ports: Array<MessagePort>?\n get() = definedExternally\n set(value)
= definedExternally\n}\n\n@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun ServiceWorkerMessageEventInit(data:
Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source:
UnionMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? =
false, cancelable: Boolean? = false, composed: Boolean? = false): ServiceWorkerMessageEventInit {\n val o =
js(\"({})\")\n 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@Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n@kotlin.internal.InlineOnly\npublic inline fun
ClientQueryOptions(includeUncontrolled: Boolean? = false, type: ClientType? = ClientType.WINDOW):

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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 *\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@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ExtendableEventInit(bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableEventInit {\n val o =
js("{}")\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n o["composed"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[InstallEvent](https://developer.mozilla.org/en/docs/Web/API/InstallEvent) to Kotlin\n *\npublic external open
class InstallEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : ExtendableEvent {\n fun
registerForeignFetch(options: ForeignFetchOptions)\n\n companion object {\n val NONE: Short\n val
CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface ForeignFetchOptions {\n var scopes: Array<String>?\n var origins:
Array<String>?\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\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 *\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 var clientId: String? /* = null */\n get() = definedExternally\n set(value) =
definedExternally\n var isReload: Boolean? /* = false */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\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 var origin: String? /* = "null" */\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\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 var origin: String?\n get() = definedExternally\n set(value) = definedExternally\n var headers: Array<String>?\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchResponse(response:
Response?, origin: String? = undefined, headers: Array<String>? = undefined): ForeignFetchResponse {\n val o =

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js("{}")\n o["response"] = response\n o["origin"] = origin\n o["headers"] = headers\n return
o\n}\n\n/**\n * Exposes the JavaScript
[ExtendableMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableMessageEvent) to Kotlin\n
*/\npublic external open class ExtendableMessageEvent(type: String, eventInitDict: ExtendableMessageEventInit =
definedExternally) : ExtendableEvent {\n open val data: Any?\n open val origin: String\n open val lastEventId:
String\n open val source: UnionClientOrMessagePortOrServiceWorker?\n open val ports: Array<out
MessagePort>?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val
AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface
ExtendableMessageEventInit : ExtendableEventInit {\n var data: Any?\n get() = definedExternally\n
set(value) = definedExternally\n var origin: String?\n get() = definedExternally\n set(value) =
definedExternally\n var lastEventId: String?\n get() = definedExternally\n set(value) =
definedExternally\n var source: UnionClientOrMessagePortOrServiceWorker?\n get() = definedExternally\n
set(value) = definedExternally\n var ports: Array<MessagePort>?\n get() = definedExternally\n
set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun ExtendableMessageEventInit(data:
Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source:
UnionClientOrMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles:
Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableMessageEventInit {\n
val o = js("{}")\n o["data"] = data\n o["origin"] = origin\n o["lastEventId"] = lastEventId\n
o["source"] = source\n o["ports"] = ports\n o["bubbles"] = bubbles\n o["cancelable"] = cancelable\n
o["composed"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript
[Cache](https://developer.mozilla.org/en/docs/Web/API/Cache) to Kotlin\n */\npublic external abstract class Cache
{\n fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>\n fun
matchAll(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally):
Promise<Array<Response>>\n fun add(request: dynamic): Promise<Unit>\n fun addAll(requests:
Array<dynamic>): Promise<Unit>\n fun put(request: dynamic, response: Response): Promise<Unit>\n fun
delete(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Boolean>\n fun
keys(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally):
Promise<Array<Request>>\n}\n\npublic external interface CacheQueryOptions {\n var ignoreSearch: Boolean? /*
= false */\n get() = definedExternally\n set(value) = definedExternally\n var ignoreMethod: Boolean? /* =
false */\n get() = definedExternally\n set(value) = definedExternally\n var ignoreVary: Boolean? /* =
false */\n get() = definedExternally\n set(value) = definedExternally\n var cacheName: String?\n
get() = definedExternally\n set(value) = definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun CacheQueryOptions(ignoreSearch:
Boolean? = false, ignoreMethod: Boolean? = false, ignoreVary: Boolean? = false, cacheName: String? = undefined):
CacheQueryOptions {\n val o = js("{}")\n o["ignoreSearch"] = ignoreSearch\n o["ignoreMethod"] =
ignoreMethod\n o["ignoreVary"] = ignoreVary\n o["cacheName"] = cacheName\n return o\n}\n\npublic
external interface CacheBatchOperation {\n var type: String?\n get() = definedExternally\n set(value) =
definedExternally\n var request: Request?\n get() = definedExternally\n set(value) = definedExternally\n
var response: Response?\n get() = definedExternally\n set(value) = definedExternally\n var options:
CacheQueryOptions?\n get() = definedExternally\n set(value) =
definedExternally\n}\n\n@Suppress("INVISIBLE_REFERENCE",
"INVISIBLE_MEMBER")\n@kotlin.internal.InlineOnly\npublic inline fun CacheBatchOperation(type: String? =
undefined, request: Request? = undefined, response: Response? = undefined, options: CacheQueryOptions? =
undefined): CacheBatchOperation {\n val o = js("{}")\n o["type"] = type\n o["request"] = request\n
o["response"] = response\n o["options"] = options\n return o\n}\n\n/**\n * Exposes the JavaScript
[CacheStorage](https://developer.mozilla.org/en/docs/Web/API/CacheStorage) to Kotlin\n */\npublic external
abstract class CacheStorage {\n fun match(request: dynamic, options: CacheQueryOptions = definedExternally):

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Promise<Any?>\n fun has(cacheName: String): Promise<Boolean>\n fun open(cacheName: String):
Promise<Cache>\n fun delete(cacheName: String): Promise<Boolean>\n fun keys():
Promise<Array<String>>\n}\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}\n\npublic external interface UnionMessagePortOrServiceWorker\n\npublic
external interface UnionClientOrMessagePortOrServiceWorker\n\n/* please, don't implement this interface!
*\n\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface ServiceWorkerState {\n companion object\n}\n\npublic inline val
ServiceWorkerState.Companion.INSTALLING: ServiceWorkerState get() =
"installing".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.INSTALLED: ServiceWorkerState get() =
"installed".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.ACTIVATING: ServiceWorkerState get() =
"activating".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.ACTIVATED: ServiceWorkerState get() =
"activated".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val
ServiceWorkerState.Companion.REDUNDANT: ServiceWorkerState get() =
"redundant".asDynamic().unsafeCast<ServiceWorkerState>()\n\n/* please, don't implement this interface!
*\n\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface FrameType {\n companion object\n}\n\npublic inline val FrameType.Companion.AUXILIARY:
FrameType get() = "auxiliary".asDynamic().unsafeCast<FrameType>()\n\npublic inline val
FrameType.Companion.TOP_LEVEL: FrameType get() = "top-
level".asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.NESTED: FrameType
get() = "nested".asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.NONE:
FrameType get() = "none".asDynamic().unsafeCast<FrameType>()\n\n/* please, don't implement this interface!
*\n\n@JsName("null")\n@Suppress("NESTED_CLASS_IN_EXTERNAL_INTERFACE")\n\npublic external
interface ClientType {\n companion object\n}\n\npublic inline val ClientType.Companion.WINDOW: ClientType
get() = "window".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.WORKER:
ClientType get() = "worker".asDynamic().unsafeCast<ClientType>()\n\npublic inline val
ClientType.Companion.SHAREDWORKER: ClientType get() =
"sharedworker".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.ALL:
ClientType get() = "all".asDynamic().unsafeCast<ClientType>()"/*\n * Copyright 2010-2021 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n *\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.xhr\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.dom.*\nimport org.w3c.dom.events.*\nimport org.w3c.files.*\n\n/**\n *
Exposes the JavaScript
[XMLHttpRequestEventTarget](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequestEventTarget) to
Kotlin\n *\n\npublic external abstract class XMLHttpRequestEventTarget : EventTarget {\n open var onloadstart:
((ProgressEvent) -> dynamic)?\n open var onprogress: ((ProgressEvent) -> dynamic)?\n open var onabort:
((Event) -> dynamic)?\n open var onerror: ((Event) -> dynamic)?\n open var onload: ((Event) -> dynamic)?\n
open var ontimeout: ((Event) -> dynamic)?\n open var onloadend: ((Event) -> dynamic)?\n}\n\npublic external
abstract class XMLHttpRequestUpload : XMLHttpRequestEventTarget\n\n/**\n * Exposes the JavaScript
[XMLHttpRequest](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequest) to Kotlin\n *\n\npublic
external open class XMLHttpRequest : XMLHttpRequestEventTarget {\n var onreadystatechange: ((Event) ->
dynamic)?\n open val readyState: Short\n var timeout: Int\n var withCredentials: Boolean\n open val upload:
XMLHttpRequestUpload\n open val responseURL: String\n open val status: Short\n open val statusText:
String\n var responseType: XMLHttpRequestResponseType\n open val response: Any?\n open val

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responseText: String\n open val responseXML: Document?\n fun open(method: String, url: String)\n fun
open(method: String, url: String, async: Boolean, username: String? = definedExternally, password: String? =
definedExternally)\n fun setRequestHeader(name: String, value: String)\n fun send(body: dynamic =
definedExternally)\n fun abort()\n fun getResponseHeader(name: String): String?\n fun
getAllResponseHeaders(): String\n fun overrideMimeType(mime: String)\n\n companion object {\n val
UNSENT: Short\n val OPENED: Short\n val HEADERS_RECEIVED: Short\n val LOADING:
Short\n val DONE: Short\n }\n\n /**\n * Exposes the JavaScript
[FormData](https://developer.mozilla.org/en/docs/Web/API/FormData) to Kotlin\n */\n 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 @Suppress(\"INVISIBLE_REFERENCE\",
\"INVISIBLE_MEMBER\")\n @kotlin.internal.InlineOnly\n public inline fun ProgressEventInit(lengthComputable:
Boolean? = false, loaded: Number? = 0, total: Number? = 0, bubbles: Boolean? = false, cancelable: Boolean? =
false, composed: Boolean? = false): ProgressEventInit {\n val o = js(\"({})\")\n o[\"lengthComputable\"] =
lengthComputable\n o[\"loaded\"] = loaded\n o[\"total\"] = total\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] =
cancelable\n o[\"composed\"] = composed\n return o\n }\n\n /** please, don't implement this
interface! */\n @JsName(\"null\")\n @Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\n public
external interface XMLHttpRequestResponseType {\n companion object\n }\n\n public inline val
XMLHttpRequestResponseType.Companion.EMPTY: XMLHttpRequestResponseType get() =
\"\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\n public inline val
XMLHttpRequestResponseType.Companion.ARRAYBUFFER: XMLHttpRequestResponseType get() =
\"arraybuffer\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\n public inline val
XMLHttpRequestResponseType.Companion.BLOB: XMLHttpRequestResponseType get() =
\"blob\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\n public inline val
XMLHttpRequestResponseType.Companion.DOCUMENT: XMLHttpRequestResponseType get() =
\"document\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\n public inline val
XMLHttpRequestResponseType.Companion.JSON: XMLHttpRequestResponseType get() =
\"json\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\n public inline val
XMLHttpRequestResponseType.Companion.TEXT: XMLHttpRequestResponseType get() =
\"text\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()}\n } /*\n * 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)@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")@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)@DeprecatedSinceKotlin(warningSince = "1.4", errorSince = "1.6")@Deprecated("Please use OptIn instead.", ReplaceWith("OptIn(*markerClass)", "kotlin.OptIn"))public annotation class UseExperimental(val vararg val markerClass: KClass<out Annotation>)

```

internal annotation class WasExperimental(val vararg val markerClass: KClass<out Annotation>)

"package kotlin\n\nimport kotlin.annotation.AnnotationTarget.\*\n\n \* 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:\n \* the behavior of such API may be changed or the API may be removed completely in any further release.\n \* > Beware using the annotated API especially if you're developing a library, since your library might become binary incompatible with the future versions of the standard library.\n \* Any usage of a declaration annotated with `@ExperimentalStdlibApi` must be accepted either by\n \* annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalStdlibApi::class)`\n \* or by using the compiler argument `-opt-in=kotlin.ExperimentalStdlibApi`.\n \* @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@SinceKotlin("1.3")public annotation class ExperimentalStdlibApi

"\n \* Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*\npackage kotlin\n\nimport kotlin.annotation.AnnotationTarget.\*\n\nimport kotlin.experimental.ExperimentalTypeInference\n\n \* Allows to infer generic type arguments of a function from the calls in the annotated function parameter of that function.\n \* When this annotation is placed on a generic function parameter of a function,\n \* it enables to infer the type arguments of that generic function from the lambda body passed to that parameter.\n \* The calls that affect inference are either members of the receiver type of an annotated function parameter or\n \* extensions for that type. The extensions must be themselves annotated with `@BuilderInference`.\n \* Example: we declare\n \* ```\n \* fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>().->Unit): Sequence<T>\n \* ```\n \* and use it like\n \* ```\n \* val result = sequence { yield("result") }\n \* ```\n \* Here the type argument of the resulting sequence is inferred to `String` from\n \* the argument of the [SequenceScope.yield] function, that is called inside the lambda passed to [sequence].\n \* Note:

this annotation is experimental, see [ExperimentalTypeInference] on how to opt-in for it.

```

*\/n@Target(VALUE_PARAMETER, FUNCTION,
PROPERTY)\n*\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.3")\n@ExperimentalTypeInference\npublic annotation class BuilderInference\n\n/**\n * Enables overload selection based on the type of the value
returned from lambda argument.\n *\n * When two or more function overloads have otherwise the same parameter
lists that differ only in the return type\n * of a functional parameter, this annotation enables overload selection by the
type of the value returned from\n * the lambda function passed to this functional parameter.\n *\n * Example:\n *
```\n * @OverloadResolutionByLambdaReturnType\n * fun create(intProducer: () -> Int): Int\n * fun
create(doubleProducer: () -> Double): Double\n * val newValue = create { 3.14 }\n *
```\n *\n * The annotation
being applied to one of overloads allows to resolve this ambiguity by analyzing what value is returned\n * from the
lambda function.\n *\n * This annotation is also used to discriminate the annotated overloads in case if overload
selection still cannot\n * choose one of them even taking in account the result of lambda parameter analysis. In that
case a warning is reported.\n *\n * Note: this annotation is experimental, see [ExperimentalTypeInference] on how
to opt-in for it.

```

```

\/n@Target(FUNCTION)\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.4")\n@ExperimentalTypeInference\npublic annotation class OverloadResolutionByLambdaReturnType", "/\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\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 `-opt-in=kotlin.ExperimentalMultiplatform`.

```

```

*\/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 *\n * Optional expected class is allowed to have no corresponding actual class on the platform. Optional
annotations can only be used\n * to annotate something, not as types in signatures. If an optional annotation has no
corresponding actual class on a platform,\n * the annotation entries where it's used are simply erased when
compiling code on that platform.\n *\n * Note: this annotation is experimental, see [ExperimentalMultiplatform] on
how to opt-in for it.

```

```

*\/n@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 */\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 *\n * This class requires opt-in itself
and can only be used with the compiler argument `-opt-in=kotlin.RequiresOptIn`.\n *\n * @property message
message to be reported on usages of API without an explicit opt-in, or empty string for the default message.\n *

```

The default message is: `"This declaration is experimental and its usage should be marked with 'Marker'"` or `"@OptIn(Marker::class)"`, where `Marker` is the opt-in requirement marker. `@property level` specifies how usages of API without an explicit opt-in are reported in code.

```

*\/n@Target(ANNOTATION_CLASS)\/n@Retention(BINARY)\/n@SinceKotlin("1.3")\/n@RequireKotlin("1.3.70", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\/npublic annotation class RequiresOptIn(
val message: String = "",
val level: Level = Level.ERROR) {
 /**
 * Severity of the diagnostic that should be reported on usages which did not explicitly opt into
 * the API either by using [OptIn] or by being annotated with the corresponding marker annotation.
 */
 public enum class Level {
 /** Specifies that a warning should be reported on incorrect usages of this API.
 */
 WARNING,
 /** Specifies that an error should be reported on incorrect usages of this API.
 */
 ERROR,
 }
}
/**
 * Allows to use the API denoted by the given markers in the annotated file, declaration, or expression.
 * 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 -opt-in=kotlin.RequiresOptIn.
*/
*\/n@Target(
 CLASS, PROPERTY, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE, TYPEALIAS)\/n@Retention(SOURCE)\/n@SinceKotlin("1.3")\/n@RequireKotlin("1.3.70", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\/npublic annotation class OptIn(
 vararg val markerClass: KClass<out Annotation>)
}
/**
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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.
*/
*\/npackage kotlin.collections
*\/nimport kotlin.js.JsName
*\/n/**
 * Provides a skeletal implementation of the read-only [Collection] interface.
 * @param E the type of elements contained in the collection. The collection is covariant in its element type.
*/
*\/n@SinceKotlin("1.1")\/npublic 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.
*/
*\/n @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.
*/
*\/n protected open fun <T> toArray(array: Array<T>): Array<T> = copyToArrayImpl(this, array)
}
}
/**
 * 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.
*/
*\/npackage kotlin.collections
*\/nprivate 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.
*/
*\/npublic 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
*/
*\/n abstract protected fun computeNext(): Unit
/**
 * Sets the next value in the iteration, called from the [computeNext] function
*/
*\/n protected fun setNext(value: T): Unit {
 nextValue = value
 state = State.Ready
}
/**
 * Sets the state to

```

```

done so that the iteration terminates.\n *\n protected fun done() {\n state = State.Done\n }\n}\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * 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 * Based on\n GWT AbstractList\n * Copyright 2007 Google Inc.\n */\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal\n implementation of the read-only [List] interface.\n *\n * This class is intended to help implementing read-only lists\n so it doesn't support concurrent modification tracking.\n *\n * @param E the type of elements contained in the list.\n The list is covariant in its element type.\n */\n\n@SinceKotlin("1.1")\npublic abstract class AbstractList<out E>\nprotected constructor(): AbstractCollection<E>(), List<E> {\n abstract override val size: Int\n abstract override\n fun get(index: Int): E\n\n override fun iterator(): Iterator<E> = IteratorImpl()\n\n override fun indexOf(element:\n @UnsafeVariance E): Int = indexOfFirst { it == element }\n\n override fun lastIndexOf(element:\n @UnsafeVariance E): Int = indexOfLast { it == element }\n\n override fun listIterator(): ListIterator<E> =\n 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\n SubList<out E>(private val list: AbstractList<E>, private val fromIndex: Int, toIndex: Int) : AbstractList<E>(),\n RandomAccess {\n private var _size: Int = 0\n\n init {\n checkRangeIndexes(fromIndex, toIndex,\n 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\n 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\n order.\n */\n override fun equals(other: Any?): Boolean {\n if (other === this) return true\n if (other !is\n List<*>) return false\n return orderedEquals(this, other)\n }\n\n /**\n * Returns the hash code value for\n this list.\n */\n override fun hashCode(): Int = orderedHashCode(this)\n\n private open inner class IteratorImpl\n : Iterator<E> {\n /** the index of the item that will be returned on the next call to [next]`()\n */\n protected\n var index = 0\n\n override fun hasNext(): Boolean = index < size\n\n override fun next(): E {\n if\n (!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) :\n IteratorImpl(), ListIterator<E> {\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\n nextIndex(): Int = index\n\n override fun previous(): E {\n if (!hasPrevious()) throw\n NoSuchElementException()\n return get(--index)\n }\n\n override fun previousIndex(): Int = index -\n 1\n }\n\n internal companion object {\n internal fun checkElementIndex(index: Int, size: Int) {\n if\n (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\n 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:\n $toIndex")\n }\n }\n\n internal fun\n checkBoundsIndexes(startIndex: Int, endIndex: Int, size: Int) {\n if (startIndex < 0 || endIndex > size) {\n throw IndexOutOfBoundsException("startIndex:\n $startIndex, endIndex: $endIndex, size: $size")\n }\n if (startIndex > endIndex) {\n throw\n IllegalArgumentException("startIndex: $startIndex > endIndex: $endIndex")\n }\n }\n\n internal\n 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\n 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"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this\n source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n

```

```

Based on GWT AbstractMap
 * Copyright 2007 Google Inc.
 *
 * Provides
 a skeletal implementation of the read-only [Map] interface.
 * The implementor is required to implement
 [entries] property, which should return read-only set of map entries.
 * @param K the type of map keys. The
 map is invariant in its key type.
 * @param V the type of map values. The map is covariant in its value type.
 *
 * Since Kotlin 1.1
 public abstract class AbstractMap<K, out V> protected constructor() : Map<K, V>
 {
 override fun containsKey(key: K): Boolean {
 return implFindEntry(key) != null
 }
 override fun containsValue(value: @UnsafeVariance V): Boolean = entries.any { it.value == value }
 internal fun containsEntry(entry: Map.Entry<*, *>): Boolean {
 // since entry comes from @UnsafeVariance parameters it
 // can be virtually anything
 if (entry !is Map.Entry<*, *>) return false
 val key = entry.key
 val value = entry.value
 val ourValue = get(key)
 if (value != ourValue) {
 return false
 }
 // Perhaps it was null and we don't contain the key?
 if (ourValue == null && !containsKey(key)) {
 return false
 }
 return true
 }
 /**
 * Compares this map with other instance with the
 ordered structural equality.
 * @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.
 *
 override fun equals(other: Any?): Boolean {
 if (other === this) return true
 if (other !is Map<*, *>) return false
 if (size != other.size) return false
 return other.entries.all { containsEntry(it) }
 }
 override operator fun get(key: K): V? = implFindEntry(key)?.value
 /**
 * Returns the hash code value for this map.
 * It is the same as the hashCode of [entries] set.
 *
 override fun hashCode(): Int = entries.hashCode()
 override fun isEmpty(): Boolean = size == 0
 override val size: Int get() = entries.size
 /**
 * Returns a read-only [Set] of all keys in this map.
 * Accessing this property first time creates a keys view from [entries].
 * All subsequent accesses just return the created instance.
 *
 override val keys: Set<K>
 get() {
 if (_keys == null) {
 _keys = object : AbstractSet<K>() {
 override operator fun contains(element: K): Boolean = containsKey(element)
 override operator fun iterator(): Iterator<K> {
 val entryIterator = entries.iterator()
 return object : Iterator<K> {
 override fun hasNext(): Boolean = entryIterator.hasNext()
 override fun next(): K = entryIterator.next().key
 }
 }
 override val size: Int get() = this@AbstractMap.size
 }
 _keys!!
 }
 @kotlin.jvm.Volatile
 private var _keys: Set<K>? = null
 }
 override fun toString(): String = entries.joinToString(", ", "\n", "\n") {
 toString(it)
 }
 private fun toString(entry: Map.Entry<K, V>): String = toString(entry.key) + "=" + toString(entry.value)
 private fun toString(o: Any?): String = if (o === this) "(this Map)" else o.toString()
 /**
 * Returns a read-only [Collection] of all values in this map.
 * Accessing this property first time creates a values view from [entries].
 * All subsequent accesses just return the created instance.
 *
 override val values: Collection<V>
 get() {
 if (_values == null) {
 _values = object : AbstractCollection<V>() {
 override operator fun contains(element: @UnsafeVariance V): Boolean = containsValue(element)
 override operator fun iterator(): Iterator<V> {
 val entryIterator = entries.iterator()
 return object : Iterator<V> {
 override fun hasNext(): Boolean = entryIterator.hasNext()
 override fun next(): V = entryIterator.next().value
 }
 }
 override val size: Int get() = this@AbstractMap.size
 }
 _values!!
 }
 @kotlin.jvm.Volatile
 private var _values: Collection<V>? = null
 }
 private fun implFindEntry(key: K): Map.Entry<K, V>? = entries.firstOrNull { it.key == key }
 internal companion object {
 internal fun entryHashCode(e: Map.Entry<*, *>): Int = with(e) { (key?.hashCode() ?: 0) xor (value?.hashCode() ?: 0) }
 internal fun entryToString(e: Map.Entry<*, *>): String = with(e) { "$key=$value" }
 internal fun entryEquals(e: Map.Entry<*, *>, other: Any?): Boolean {
 if (other !is Map.Entry<*, *>) return false
 return e.key == other.key && e.value == other.value
 }
 }
 }
 * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.
 * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 *
 * Provides a skeletal implementation of the read-only [Set] interface.
 *
 * This class is intended to help implementing read-only sets so it doesn't support concurrent modification tracking.

```

```

*\n * @param E the type of elements contained in the set. The set is covariant in its element type.\n
*\n@SinceKotlin("1.1")\npublic abstract class AbstractSet<out E> protected constructor() :
AbstractCollection<E>(), Set<E> {\n\n /**\n * Compares this set with other set instance with the unordered
structural equality.\n *\n * @return true, if [other] instance is a [Set] of the same size, all elements of which are
contained in this set.\n *\n override fun equals(other: Any?): Boolean {\n if (other === this) return true\n
if (other !is Set<*>) return false\n return setEquals(this, other)\n }\n\n /**\n * Returns the hash code
value for this set.\n *\n override fun hashCode(): Int = unorderedHashCode(this)\n\n internal companion
object {\n internal fun unorderedHashCode(c: Collection<*>): Int {\n var hashCode = 0\n for
(element in c) {\n hashCode += (element?.hashCode() ?: 0)\n }\n return hashCode\n
}\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 * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n\npackage kotlin.collections\n\n/**\n * Resizable-array implementation
of the deque data structure.\n *\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 * It also implements
[MutableList] interface and supports efficient get/set operations by index.\n
*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic class ArrayDeque<E> :
AbstractMutableList<E> {\n private var head: Int = 0\n private var elementData: Array<Any?>\n\n override
var size: Int = 0\n private set\n\n /**\n * Constructs an empty deque with specified [initialCapacity], or
throws [IllegalArgumentException] if [initialCapacity] is negative.\n *\n public constructor(initialCapacity:
Int) {\n elementData = when {\n initialCapacity == 0 -> emptyElementData\n initialCapacity > 0 -
> arrayOfNulls(initialCapacity)\n else -> throw IllegalArgumentException("Illegal Capacity:
$initialCapacity")\n }\n }\n\n /**\n * Constructs an empty deque.\n *\n public constructor() {\n
elementData = emptyElementData\n }\n\n /**\n * Constructs a deque that contains the same elements as the
specified [elements] collection in the same order.\n *\n public constructor(elements: Collection<E>) {\n
elementData = elements.toArray()\n size = elementData.size\n if (elementData.isEmpty())
elementData = emptyElementData\n }\n\n /**\n * Ensures that the capacity of this deque is at least equal to
the specified [minCapacity].\n *\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\n val newCapacity = newCapacity(elementData.size, minCapacity)\n
copyElements(newCapacity)\n }\n\n /**\n * Creates a new array with the specified [newCapacity] size and
copies elements in the [elementData] array to it.\n *\n private fun copyElements(newCapacity: Int) {\n val
newElements = arrayOfNulls<Any?>(newCapacity)\n elementData.copyInto(newElements, 0, head,
elementData.size)\n elementData.copyInto(newElements, elementData.size - head, 0, head)\n head = 0\n
elementData = newElements\n }\n\n @kotlin.internal.InlineOnly\n private inline fun
internalGet(internalIndex: Int): E {\n @Suppress("UNCHECKED_CAST")\n return
elementData[internalIndex] as E\n }\n\n private fun positiveMod(index: Int): Int = if (index >=
elementData.size) index - elementData.size else index\n\n private fun negativeMod(index: Int): Int = if (index < 0)
index + elementData.size else index\n\n @kotlin.internal.InlineOnly\n private inline fun internalIndex(index:
Int): Int = positiveMod(head + index)\n\n private fun incremented(index: Int): Int = if (index ==
elementData.lastIndex) 0 else index + 1\n\n private fun decremented(index: Int): Int = if (index == 0)
elementData.lastIndex else index - 1\n\n override fun isEmpty(): Boolean = size == 0\n\n /**\n * Returns the
first element, or throws [NoSuchElementException] if this deque is empty.\n *\n public fun first(): E = if
(isEmpty()) throw NoSuchElementException("ArrayDeque is empty.") else internalGet(head)\n\n /**\n *
Returns the first element, or `null` if this deque is empty.\n *\n public fun firstOrNull(): E? = if (isEmpty()) null

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else internalGet(head)\n\n /**\n * Returns the last element, or throws [NoSuchElementException] if this deque
is empty.\n */\n public fun last(): E = if (isEmpty()) throw NoSuchElementException("ArrayDeque is empty.")
else internalGet(internalIndex(lastIndex))\n\n /**\n * Returns the last element, or `null` if this deque is empty.\n
*/\n public fun lastOrNull(): E? = if (isEmpty()) null else internalGet(internalIndex(lastIndex))\n\n /**\n *
Prepends the specified [element] to this deque.\n */\n public fun addFirst(element: E) {\n
ensureCapacity(size + 1)\n\n head = decremented(head)\n 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\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\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\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\n if (index == size) {\n addLast(element)\n
return\n } else if (index == 0) {\n addFirst(element)\n return\n }\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\n val internalIndex =
internalIndex(index)\n\n if (index < (size + 1) shr 1) {\n // closer to the first element -> shift preceding
elements\n\n val decrementedInternalIndex = decremented(internalIndex)\n\n val decrementedHead =
decremented(head)\n\n if (decrementedInternalIndex >= head) {\n\n elementData[decrementedHead]
= elementData[head] // head can be zero\n\n elementData.copyInto(elementData, head, head + 1,
decrementedInternalIndex + 1)\n\n } else { // head > tail\n\n elementData.copyInto(elementData, head -
1, head, elementData.size) // head can't be zero\n\n elementData[elementData.size - 1] = elementData[0]\n
\n elementData.copyInto(elementData, 0, 1, decrementedInternalIndex + 1)\n\n }\n\n elementData[decrementedInternalIndex] = element\n\n head = decrementedHead\n\n } else {\n //
closer to the last element -> shift succeeding elements\n\n val tail = internalIndex(size)\n\n if
(internalIndex < tail) {\n\n elementData.copyInto(elementData, internalIndex + 1, internalIndex, tail)\n
}\n\n } else { // head > tail\n\n elementData.copyInto(elementData, 1, 0, tail)\n\n elementData[0] =

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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\nprivate 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\n if (index < (size + 1) shr 1) {\n // closer to the first element -> shift preceding
elements\n\n var shiftedHead = head - elementsSize\n\n if (internalIndex >= head) {\n if
(shiftedHead >= 0) {\n elementData.copyInto(elementData, shiftedHead, head, internalIndex)\n
}\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\n if (shiftToBack >= elementsToShift) {\n elementData.copyInto(elementData, shiftedHead, head,
internalIndex)\n } else {\n elementData.copyInto(elementData, shiftedHead, head, head +
shiftToBack)\n }\n elementData.copyInto(elementData, 0, head + shiftToBack, internalIndex)\n
}\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 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 }\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 copyCollectionElements(internalIndex, elements)\n }\n\n return true\n }\n\n public
override fun get(index: Int): E {\n AbstractList.checkElementIndex(index, size)\n\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

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index - head\n }\n for (index in 0 until tail) {\n if (element == elementData[index]) return
index + elementData.size - head\n }\n }\n return -1\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 for (index in elementData.lastIndex downTo head) {\n
if (element == elementData[index]) return index - head\n }\n }\n return -1\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 public override fun removeAt(index: Int): E {\n
AbstractList.checkNotNull(index, size)\n if (index == lastIndex) {\n return removeLast()\n }
else if (index == 0) {\n return removeFirst()\n }\n val internalIndex = internalIndex(index)\n
val element = internalGet(internalIndex)\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 }
else {\n // closer to the last element ->
shift succeeding elements\n val internalLastIndex = internalIndex(lastIndex)\n if (internalIndex <=
internalLastIndex) {\n elementData.copyInto(elementData, internalIndex, internalIndex + 1,
internalLastIndex + 1)\n } else { // head > tail, internalIndex > head\n
elementData.copyInto(elementData, internalIndex, internalIndex + 1, elementData.size)\n
elementData[elementData.size - 1] = elementData[0]\n elementData.copyInto(elementData, 0, 1,
internalLastIndex + 1)\n }\n elementData[internalLastIndex] = null\n }\n size -= 1\n }
return element\n }\n public override fun removeAll(elements: Collection<E>): Boolean = filterInPlace {
!elements.contains(it) }\n public override fun retainAll(elements: Collection<E>): Boolean = filterInPlace {
elements.contains(it) }\n private inline fun filterInPlace(predicate: (E) -> Boolean): Boolean {\n if
(this.isEmpty() || elementData.isEmpty())\n return false\n val tail = internalIndex(size)\n var
newTail = head\n var modified = false\n if (head < tail) {\n for (index in head until tail) {\n
val element = elementData[index]\n @Suppress("\\UNCHECKED_CAST")\n if
(predicate(element as E))\n elementData[newTail++] = element\n else\n modified =
true\n }\n elementData.fill(null, newTail, tail)\n } else {\n for (index in head until
elementData.size) {\n val element = elementData[index]\n elementData[index] = null\n @Suppress("\\UNCHECKED_CAST")\n if (predicate(element as E))\n elementData[newTail++] = element\n else\n modified = true\n }\n newTail =
positiveMod(newTail)\n for (index in 0 until tail) {\n val element = elementData[index]\n
elementData[index] = null\n @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 if (modified)\n size =
negativeMod(newTail - head)\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 @Suppress("\\NOTHING_TO_OVERRIDE")\n override fun <T> toArray(array:
Array<T>): Array<T> {\n @Suppress("\\UNCHECKED_CAST")\n val dest = (if (array.size >= size) array
else arrayOfNulls(array, size)) as Array<Any?>\n val tail = internalIndex(size)\n if (head < tail) {\n
elementData.copyInto(dest, startIndex = head, endIndex = tail)\n } else if (isEmpty()) {\n
elementData.copyInto(dest, destinationOffset = 0, startIndex = head, endIndex = elementData.size)\n
elementData.copyInto(dest, destinationOffset = elementData.size - head, startIndex = 0, endIndex = tail)\n }\n
 if (dest.size > size) {\n dest[size] = null // null-terminate\n }\n }

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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 return
true\n}\n\n@SinceKotlin("1.3")\n@PublishedApi\n@kotlin.jvm.JvmName("contentDeepToString")\n@kotlin.js.
JsName("contentDeepToStringImpl")\ninternal fun <T> Array<out T>?.contentDeepToStringImpl(): String {\n
if (this == null) return "null"\n val length = size.coerceAtMost((Int.MAX_VALUE - 2) / 5) * 5 + 2 // in order not
to overflow Int.MAX_VALUE\n return buildString(length) {\n contentDeepToStringInternal(this,
mutableListOf())\n }\n}\n\n@OptIn(ExperimentalUnsignedTypes::class)\nprivate fun <T> Array<out
T>.contentDeepToStringInternal(result: StringBuilder, processed: MutableList<Array<*>>) {\n if (this in
processed) {\n result.append("[...]")\n return\n }\n processed.add(this)\n result.append('[')\n\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\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\n result.append(',')\n processed.removeAt(processed.lastIndex)\n}"/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/** Returns true if the brittle contains optimization
is enabled. See KT-45438. */\n\ninternal expect fun brittleContainsOptimizationEnabled(): Boolean\n\n/**\n * Returns true if [brittleContainsOptimizationEnabled] is true\n * and it's safe to convert this collection to a set
without changing contains method behavior.\n */\n\nprivate fun <T> Collection<T>.safeToConvertToSet() =
brittleContainsOptimizationEnabled() && size > 2 && this is ArrayList\n\n/**\n * When [brittleContainsOptimizationEnabled] is true:\n * - Converts this [Iterable] to a set if it is not a [Collection].\n * -
Converts this [Collection] to a set, when it's worth so and it doesn't change contains method behavior.\n * -
Otherwise returns this.\n * When [brittleContainsOptimizationEnabled] is false:\n * - Converts this [Iterable] to a
list if it is not a [Collection].\n * - Otherwise returns this.\n */\n\ninternal fun <T>
Iterable<T>.convertToSetForSetOperationWith(source: Iterable<T>): Collection<T> =\n when (this) {\n is
Set -> this\n is Collection ->\n when {\n source is Collection && source.size < 2 -> this\n
 else -> if (this.safeToConvertToSet()) toHashSet() else this\n }\n else -> if
(brittleContainsOptimizationEnabled()) toHashSet() else toList()\n }\n\n/**\n * When [brittleContainsOptimizationEnabled] is true:\n * - Converts this [Iterable] to a set if it is not a [Collection].\n * -
Converts this [Collection] to a set, when it's worth so and it doesn't change contains method behavior.\n * -
Otherwise returns this.\n * When [brittleContainsOptimizationEnabled] is false:\n * - Converts this [Iterable] to a
list if it is not a [Collection].\n * - Otherwise returns this.\n */\n\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 else -> if
(brittleContainsOptimizationEnabled()) toHashSet() else toList()\n }\n\n/**\n * Converts this sequence to a set if
[brittleContainsOptimizationEnabled] is true,\n * otherwise converts it to a list.\n */\n\ninternal fun <T>
Sequence<T>.convertToSetForSetOperation(): Collection<T> =\n if (brittleContainsOptimizationEnabled())
toHashSet() else toList()\n\n/**\n * Converts this array to a set if [brittleContainsOptimizationEnabled] is true,\n *
otherwise converts it to a list.\n */\n\ninternal fun <T> Array<T>.convertToSetForSetOperation(): Collection<T> =\n
 if (brittleContainsOptimizationEnabled()) toHashSet() else asList()"/**\n * Copyright 2010-2018 JetBrains s.r.o.

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and Kotlin Programming Language contributors.\n \* Use 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 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\n@file:kotlin.jvm.JvmName("MapAccessorsKt")\n\npackage kotlin.collections\n\nimport kotlin.reflect.KProperty\nimport kotlin.internal.Exact\n\n/\*\*\n \* Returns the value of the property for the given object from this read-only map.\n \* @param thisRef the object for which the value is requested (not used).\n \* @param property the metadata for the property, used to get the name of property and lookup the value corresponding to this name in the map.\n \* @return the property value.\n \* @throws NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).\n \*/\n\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")\n (getOrNull(thisRef, 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 \* @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")\n (getOrNull(thisRef, property.name) as V1)\n\n/\*\*\n \* Stores the value of the property for the given object in this mutable map.\n \* @param thisRef the object for which the value is requested (not used).\n \* @param property the metadata for the property, used to get the name of property and store the value associated with that name in the map.\n \* @param value the value to set.\n \*/\n\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 \* @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("getOrNull")\n@PublishedApi\ninternal fun <K, V> Map<K, V>.getOrNull(key: K): V {\n if (this is MapWithDefault)\n return this.getOrNull(key)\n return getOrNull(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 \* This implicit default value is used when the original map doesn't contain a value for the key specified\n \* and a value is obtained with [Map.getValue] function, for example when properties are delegated to the map.\n \* When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.\n \*/\n\npublic fun <K, V> Map<K, V>.withDefault(defaultValue: (key: K) -> V): Map<K, V> =\n when (this) {\n is MapWithDefault -> this.withDefault(defaultValue)\n else -> MapWithDefaultImpl(this, defaultValue)\n }\n\n/\*\*\n \* Returns a wrapper of this mutable map, having the implicit default value provided with the specified function [defaultValue].\n \* This implicit default value is used when the original map doesn't contain a value for the key specified\n \* and a value is obtained with [Map.getValue] function, for example when properties are delegated to the

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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.\n *\n@kotlin.jvm.JvmName("withDefaultMutable")\npublic fun <K, V>
MutableMap<K, V>.withDefault(defaultValue: (key: K) -> V): MutableMap<K, V> =\n when (this) {\n is
MutableMapWithDefault -> this.map.withDefault(defaultValue)\n else -> MutableMapWithDefaultImpl(this,
defaultValue)\n }\n\nprivate interface MapWithDefault<K, out V> : Map<K, V> {\n public val map: Map<K,
V>\n public fun getOrDefault(key: K): V\n}\n\nprivate interface MutableMapWithDefault<K, V> :
MutableMap<K, V>, MapWithDefault<K, V> {\n public override val map: MutableMap<K, V>\n}\n\nprivate
class MapWithDefaultImpl<K, out V>(public override val map: Map<K, V>, private val default: (key: K) -> V) :
MapWithDefault<K, V> {\n override fun equals(other: Any?): Boolean = map.equals(other)\n override fun
hashCode(): Int = map.hashCode()\n override fun toString(): String = map.toString()\n override val size: Int get()
= map.size\n override fun isEmpty(): Boolean = map.isEmpty()\n override fun containsKey(key: K): Boolean =
map.containsKey(key)\n override fun containsValue(value: @UnsafeVariance V): Boolean =
map.containsValue(value)\n override fun get(key: K): V? = map.get(key)\n override val keys: Set<K> get() =
map.keys\n override val values: Collection<V> get() = map.values\n override val entries: Set<Map.Entry<K,
V>> get() = map.entries\n override fun getOrDefault(key: K): V = map.getOrElseNullable(key, {
default(key) })\n}\n\nprivate class MutableMapWithDefaultImpl<K, V>(public override val map: MutableMap<K,
V>, private val default: (key: K) -> V) : MutableMapWithDefault<K, V> {\n override fun equals(other: Any?):
Boolean = map.equals(other)\n override fun hashCode(): Int = map.hashCode()\n override fun toString(): String
= map.toString()\n override val size: Int get() = map.size\n override fun isEmpty(): Boolean = map.isEmpty()\n
override fun containsKey(key: K): Boolean = map.containsKey(key)\n override fun containsValue(value:
@UnsafeVariance V): Boolean = map.containsValue(value)\n override fun get(key: K): V? = map.get(key)\n
override val keys: MutableSet<K> get() = map.keys\n override val values: MutableCollection<V> get() =
map.values\n override val entries: MutableSet<MutableMap.MutableEntry<K, V>> get() = map.entries\n\n
override fun put(key: K, value: V): V? = map.put(key, value)\n override fun remove(key: K): V? =
map.remove(key)\n override fun putAll(from: Map<out K, V>) = map.putAll(from)\n override fun clear() =
map.clear()\n\n override fun getOrDefault(key: K): V = map.getOrElseNullable(key, { default(key)
})\n}\n\n"/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName("CollectionsKt")\n\npackage
kotlin.collections\n\nimport kotlin.random.Random\n\n/**\n * Removes a single instance of the specified element
from this\n * collection, if it is present.\n *\n * Allows to overcome type-safety restriction of `remove` that requires
to pass an element of type `E`.\n *\n * @return `true` if the element has been successfully removed; `false` if it was
not present in the collection.\n *\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes
T> MutableCollection<out T>.remove(element: T): Boolean =\n @Suppress("UNCHECKED_CAST") (this as
MutableCollection<T>).remove(element)\n\n/**\n * Removes all of this collection's elements that are also
contained in the specified collection.\n *\n * Allows to overcome type-safety restriction of `removeAll` that requires
to pass a collection of type `Collection<E>`.\n *\n * @return `true` if any of the specified elements was removed
from the collection, `false` if the collection was not modified.\n *\n@kotlin.internal.InlineOnly\npublic inline fun
<@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.removeAll(elements: Collection<T>): Boolean
=\n @Suppress("UNCHECKED_CAST") (this as MutableCollection<T>).removeAll(elements)\n\n/**\n *
Retains only the elements in this collection that are contained in the specified collection.\n *\n * Allows to
overcome type-safety restriction of `retainAll` that requires to pass a collection of type `Collection<E>`.\n
*\n * @return `true` if any element was removed from the collection, `false` if the collection was not modified.\n
*\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out
T>.retainAll(elements: Collection<T>): Boolean =\n @Suppress("UNCHECKED_CAST") (this as
MutableCollection<T>).retainAll(elements)\n\n/**\n * Adds the specified [element] to this mutable collection.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(element: T)
{\n this.add(element)\n}\n\n/**\n * Adds all elements of the given [elements] collection to this mutable

```

```

collection.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in
T>.plusAssign(elements: Iterable<T>) {\n this.addAll(elements)\n}\n\n/**\n * Adds all elements of the given
[elements] array to this mutable collection.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T>
MutableCollection<in T>.plusAssign(elements: Array<T>) {\n this.addAll(elements)\n}\n\n/**\n * Adds all
elements of the given [elements] sequence to this mutable collection.\n *\n@kotlin.internal.InlineOnly\npublic
inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Sequence<T>) {\n
this.addAll(elements)\n}\n\n/**\n * Removes a single instance of the specified [element] from this mutable
collection.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in
T>.minusAssign(element: T) {\n this.remove(element)\n}\n\n/**\n * Removes all elements contained in the given
[elements] collection from this mutable collection.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun
<T> MutableCollection<in T>.minusAssign(elements: Iterable<T>) {\n this.removeAll(elements)\n}\n\n/**\n *
Removes all elements contained in the given [elements] array from this mutable collection.\n
*\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements:
Array<T>) {\n this.removeAll(elements)\n}\n\n/**\n * Removes all elements contained in the given [elements]
sequence from this mutable collection.\n *\n@kotlin.internal.InlineOnly\npublic inline operator fun <T>
MutableCollection<in T>.minusAssign(elements: Sequence<T>) {\n this.removeAll(elements)\n}\n\n/**\n * Adds
all elements of the given [elements] collection to this [MutableCollection].\n *\npublic fun <T>
MutableCollection<in T>.addAll(elements: Iterable<T>): Boolean {\n when (elements) {\n is Collection ->
return addAll(elements)\n else -> {\n var result: Boolean = false\n for (item in elements)\n
if (add(item)) result = true\n return result\n }\n }\n}\n\n/**\n * Adds all elements of the given
[elements] sequence to this [MutableCollection].\n *\npublic fun <T> MutableCollection<in T>.addAll(elements:
Sequence<T>): Boolean {\n var result: Boolean = false\n for (item in elements) {\n if (add(item)) result =
true\n }\n return result\n}\n\n/**\n * Adds all elements of the given [elements] array to this
[MutableCollection].\n *\npublic fun <T> MutableCollection<in T>.addAll(elements: Array<out T>): Boolean {\n
return addAll(elements.asList())\n}\n\n/**\n * Removes all elements from this [MutableCollection] that are also
contained in the given [elements] collection.\n *\npublic fun <T> MutableCollection<in T>.removeAll(elements:
Iterable<T>): Boolean {\n return removeAll(elements.convertToSetForSetOperationWith(this))\n}\n\n/**\n *
Removes all elements from this [MutableCollection] that are also contained in the given [elements] sequence.\n
*\npublic fun <T> MutableCollection<in T>.removeAll(elements: Sequence<T>): Boolean {\n val set =
elements.convertToSetForSetOperation()\n return set.isNotEmpty() && removeAll(set)\n}\n\n/**\n * Removes all
elements from this [MutableCollection] that are also contained in the given [elements] array.\n *\npublic fun <T>
MutableCollection<in T>.removeAll(elements: Array<out T>): Boolean {\n return elements.isNotEmpty() &&
removeAll(elements.convertToSetForSetOperation())\n}\n\n/**\n * Retains only elements of this
[MutableCollection] that are contained in the given [elements] collection.\n *\npublic fun <T>
MutableCollection<in T>.retainAll(elements: Iterable<T>): Boolean {\n return
retainAll(elements.convertToSetForSetOperationWith(this))\n}\n\n/**\n * Retains only elements of this
[MutableCollection] that are contained in the given [elements] array.\n *\npublic fun <T> MutableCollection<in
T>.retainAll(elements: Array<out T>): Boolean {\n if (elements.isNotEmpty())\n return
retainAll(elements.convertToSetForSetOperation())\n else\n return retainNothing()\n}\n\n/**\n * Retains only
elements of this [MutableCollection] that are contained in the given [elements] sequence.\n *\npublic fun <T>
MutableCollection<in T>.retainAll(elements: Sequence<T>): Boolean {\n val set =
elements.convertToSetForSetOperation()\n if (set.isNotEmpty())\n return retainAll(set)\n else\n return
retainNothing()\n}\n\nprivate fun MutableCollection<*>.retainNothing(): Boolean {\n val result = isEmpty()\n
clear()\n return result\n}\n\n/**\n * Removes all elements from this [MutableIterable] that match the given
[predicate].\n *\n * @return `true` if any element was removed from this collection, or `false` when no elements
were removed and collection was not modified.\n *\npublic fun <T> MutableIterable<T>.removeAll(predicate: (T)
-> Boolean): Boolean = filterInPlace(predicate, true)\n\n/**\n * 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 } return
result}\n\n\n/**\n * Removes the element at the specified [index] from this list.\n * In Kotlin one should use the
[MutableList.removeAt] function instead.\n */\n@Deprecated("Use removeAt(index) instead.",
ReplaceWith("removeAt(index)"), level = DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic inline
fun <T> MutableList<T>.remove(index: Int): T = removeAt(index)\n\n/**\n * Removes the first element from this
mutable list and returns that removed element, or throws [NoSuchElementException] if this list is empty.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeFirst(): T = if (isEmpty()) throw NoSuchElementException("List is empty.") else
removeAt(0)\n\n/**\n * Removes the first element from this mutable list and returns that removed element, or
returns `null` if this list is empty.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeFirstOrNull(): T? = if (isEmpty()) null else removeAt(0)\n\n/**\n * Removes the last
element from this mutable list and returns that removed element, or throws [NoSuchElementException] if this list is
empty.\n */\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeLast(): T = if (isEmpty()) throw NoSuchElementException("List is empty.") else
removeAt(lastIndex)\n\n/**\n * Removes the last element from this mutable list and returns that removed element,
or returns `null` if this list is empty.\n
*/\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T>
MutableList<T>.removeLastOrNull(): T? = if (isEmpty()) null else removeAt(lastIndex)\n\n/**\n * Removes all
elements from this [MutableList] that match the given [predicate].\n * @return `true` if any element was
removed from this collection, or `false` when no elements were removed and collection was not modified.\n
*/\npublic fun <T> MutableList<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate,
true)\n\n/**\n * Retains only elements of this [MutableList] that match the given [predicate].\n * @return `true`
if any element was removed from this collection, or `false` when all elements were retained and collection was not
modified.\n */\npublic fun <T> MutableList<T>.retainAll(predicate: (T) -> Boolean): Boolean =
filterInPlace(predicate, false)\n\nprivate fun <T> MutableList<T>.filterInPlace(predicate: (T) -> Boolean,
predicateResultToRemove: Boolean): Boolean {\n if (this is RandomAccess)\n return (this as
MutableIterable<T>).filterInPlace(predicate, predicateResultToRemove)\n\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 *
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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\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

```





```

 while (buffer.size > step) {
 yield(if (reuseBuffer) buffer else ArrayList(buffer))
 buffer.removeFirst(step)
 }
 if (buffer.isEmpty()) 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)
 }
 buffer.fill(null, 0, end)
 } else {
 buffer.fill(null, start, end)
 }
 startIndex = end
 size -= n
 }
}

@Suppress("NOTHING_TO_INLINE")
private inline fun Int.forward(n: Int): Int = (this + n) % capacity

/**
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 */
package kotlin.collections

// UByteArray
=====
@ExperimentalUnsignedTypes
private fun partition(array: UByteArray, left: Int, right: Int): Int {
 var i = left
 var j = right
 val pivot = array[(left + right) / 2]
 while (i <= j) {
 while (array[i] < pivot) i++
 while (array[j] > pivot) j--
 if (i <= j) {
 val tmp = array[i]
 array[i] = array[j]
 array[j] = tmp
 i++
 j--
 }
 }
 return i
}

@ExperimentalUnsignedTypes
private fun quickSort(array: UByteArray, left: Int, right: Int) {
 val index = partition(array, left, right)
 if (left < index

```

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- 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/**
 * Sorts the given array using qsort algorithm.\n */\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array:
UByteArray, fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex -
1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UShortArray, fromIndex: Int, toIndex: Int) =
quickSort(array, fromIndex, toIndex - 1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UIntArray,
fromIndex: Int, toIndex: Int) = quickSort(array, fromIndex, toIndex -
1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: ULongArray, fromIndex: Int, toIndex: Int) =
quickSort(array, fromIndex, toIndex - 1)", "/*\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.internal.InlineOnly\n\n/**\n * Compares this
object with the specified object for order. Returns zero if this object is equal\n * to the specified [other] object, a
negative number if it's less than [other], or a positive number\n * if it's greater than [other].\n */\n * This function
delegates to [Comparable.compareTo] and allows to call it in infix form.\n\n
*/\n@InlineOnly\n@SinceKotlin("1.6")\npublic inline infix fun <T> Comparable<T>.compareTo(other: T): Int
=\n this.compareTo(other)\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.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 `-opt-in=kotlin.contracts.ExperimentalContracts`.\n\n

```

```

*\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.3")\n@RequiresOptIn\n@MustBeDocumente
d\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 * ^\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 /\*\*\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 /\*\*\n \* This function may simply return original [continuation] if it does not want to intercept this particular continuation.\n \*/\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 /\*\*\n \* Default implementation does nothing.\n \*/\n @param continuation Continuation instance returned by this interceptor's [interceptContinuation] invocation.\n\n public fun releaseInterceptedContinuation(continuation: Continuation<\*>) {\n\n /\* do nothing by default \*/\n }\n\n public override operator fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>): E? {\n\n // getPolymorphicKey specialized for ContinuationInterceptor key\n @OptIn(ExperimentalStdlibApi::class)\n if (key is AbstractCoroutineContextKey<\*, \*>) {\n @Suppress("UNCHECKED\_CAST")\n return if (key.isSubKey(this.key)) key.tryCast(this) as? E else null\n }\n @Suppress("UNCHECKED\_CAST")\n return if (ContinuationInterceptor === key) this as E else null\n }\n\n public override fun minusKey(key: CoroutineContext.Key<\*>): CoroutineContext {\n\n // minusPolymorphicKey specialized for ContinuationInterceptor key\n @OptIn(ExperimentalStdlibApi::class)\n if (key is AbstractCoroutineContextKey<\*, \*>) {\n return if (key.isSubKey(this.key) && key.tryCast(this) != null) EmptyCoroutineContext else this\n }\n return if (ContinuationInterceptor === key) EmptyCoroutineContext else this\n }\n\n /\*\*\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n \*/\n\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@SinceKotlin("1.3")\npublic interface CoroutineContext {\n\n /\*\*\n \* Returns the element with the given [key] from this context or `null`.\n \*/\n public operator fun <E : Element> get(key: Key<E>): E?\n\n /\*\*\n \* Accumulates entries of this context starting with [initial] value and applying [operation]\n \* from left to right to current accumulator value and each element of this context.\n \*/\n public fun <R> fold(initial: R, operation: (R, Element) -> R): R\n\n /\*\*\n \* Returns a context containing elements from this context and elements from other [context].\n \* The elements from this context with the same key as in the other one are dropped.\n \*/\n public operator fun plus(context: CoroutineContext): CoroutineContext =\n if (context === EmptyCoroutineContext) this else // fast path -- avoid lambda creation\n context.fold(this) { acc, element ->\n val removed = acc.minusKey(element.key)\n if (removed === EmptyCoroutineContext) element else {\n // make sure interceptor is always last in the context (and thus is fast to get when present)\n val interceptor



Returns empty coroutine context if the element is associated with the given [key] in a polymorphic manner or `null` otherwise. This method returns empty context if either [Element.key] is equal to the given [key] or if the [key] is associated with [Element.key] via [AbstractCoroutineContextKey]. See [AbstractCoroutineContextKey] for the example of usage.

```

\/n@SinceKotlin("1.3")\/n@ExperimentalStdlibApi\/npublic fun Element.minusPolymorphicKey(key: Key<>):
CoroutineContext {\/n if (key is AbstractCoroutineContextKey<*, *>) {\/n return if (key.isSubKey(this.key)
&& key.tryCast(this) != null) EmptyCoroutineContext else this\/n }\/n return if (this.key === key)
EmptyCoroutineContext else this\/n}\/n\/n**\/n * An empty coroutine context.\/n *\/n@SinceKotlin("1.3")\/npublic
object EmptyCoroutineContext : CoroutineContext, Serializable {\/n private const val serialVersionUID: Long =
0\/n private fun readResolve(): Any = EmptyCoroutineContext\/n\/n public override fun <E : Element> get(key:
Key<E>): E? = null\/n public override fun <R> fold(initial: R, operation: (R, Element) -> R): R = initial\/n public
override fun plus(context: CoroutineContext): CoroutineContext = context\/n public override fun minusKey(key:
Key<*>): CoroutineContext = this\/n public override fun hashCode(): Int = 0\/n public override fun toString():
String = "EmptyCoroutineContext"\/n}\/n\/n//----- internal impl -----\/n\/n// this class is not
exposed, but is hidden inside implementations\/n// this is a left-biased list, so that `plus` works
naturally\/n@SinceKotlin("1.3")\/ninternal class CombinedContext(\/n private val left: CoroutineContext,\/n
private val element: Element) : CoroutineContext, Serializable {\/n\/n override fun <E : Element> get(key:
Key<E>): E? {\/n var cur = this\/n while (true) {\/n cur.element[key]?.let { return it }\/n val next
= cur.left\/n if (next is CombinedContext) {\/n cur = next\/n } else {\/n return
next[key]\/n }\/n }\/n }\/n\/n public override fun <R> fold(initial: R, operation: (R, Element) -> R): R =\/n
operation(left.fold(initial, operation), element)\/n\/n public override fun minusKey(key: Key<*>):
CoroutineContext {\/n element[key]?.let { return left }\/n val newLeft = left.minusKey(key)\/n return
when {\/n newLeft === left -> this\/n newLeft === EmptyCoroutineContext -> element\/n else ->
CombinedContext(newLeft, element)\/n }\/n }\/n\/n private fun size(): Int {\/n var cur = this\/n var size
= 2\/n while (true) {\/n cur = cur.left as? CombinedContext ?: return size\/n size++\/n }\/n }\/n\/n
private fun contains(element: Element): Boolean =\/n get(element.key) == element\/n\/n private fun
containsAll(context: CombinedContext): Boolean {\/n var cur = context\/n while (true) {\/n if
(!contains(cur.element)) return false\/n val next = cur.left\/n if (next is CombinedContext) {\/n
cur = next\/n } else {\/n return contains(next as Element)\/n }\/n }\/n }\/n\/n override fun
equals(other: Any?): Boolean =\/n this === other || other is CombinedContext && other.size() == size() &&
other.containsAll(this)\/n\/n override fun hashCode(): Int = left.hashCode() + element.hashCode()\/n\/n override
fun toString(): String =\/n "[" + fold("") { acc, element ->\/n if (acc.isEmpty()) element.toString() else
"$acc, $element"\/n } + "]"\/n\/n private fun writeReplace(): Any {\/n val n = size()\/n val elements =
arrayOfNulls<CoroutineContext>(n)\/n var index = 0\/n fold(Unit) { _, element -> elements[index++] =
element }\/n check(index == n)\/n @Suppress("UNCHECKED_CAST")\/n return Serialized(elements
as Array<CoroutineContext>)\/n }\/n\/n private class Serialized(val elements: Array<CoroutineContext>) :
Serializable {\/n companion object {\/n private const val serialVersionUID: Long = 0L\/n }\/n\/n
private fun readResolve(): Any = elements.fold(EmptyCoroutineContext, CoroutineContext::plus)\/n }\/n}\/n**\/n
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is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\/n
*\/n\/n@file:kotlin.jvm.JvmName("IntrinsicsKt")\/n@file:kotlin.jvm.JvmMultifileClass\/n\/npackage
kotlin.coroutines.intrinsics\/n\/nimport kotlin.contracts.*\/nimport kotlin.coroutines.*\/nimport
kotlin.internal.InlineOnly\/n\/n**\/n * Obtains the current continuation instance inside suspend functions and either
suspends\/n * currently running coroutine or returns result immediately without suspension.\/n *\/n * If the [block]
returns the special [COROUTINE_SUSPENDED] value, it means that suspend function did suspend the execution
and will\/n * not return any result immediately. In this case, the [Continuation] provided to the [block] shall be\/n *
resumed by invoking [Continuation.resumeWith] at some moment in the\/n * future when the result becomes
available to resume the computation.\/n *\/n * Otherwise, the return value of the [block] must have a type assignable

```



`@ExperimentalTypeInference` must be accepted either by `*` annotating that usage with the `[OptIn]` annotation, e.g. `@OptIn(ExperimentalTypeInference::class)`, `*` or by using the compiler argument `-opt-in=kotlin.experimental.ExperimentalTypeInference`. `*` `@RequiresOptIn(level = RequiresOptIn.Level.ERROR)` `@MustBeDocumented` `@Retention(AnnotationRetention.BINARY)` `@Target(AnnotationTarget.ANNOTATION_CLASS)` `@SinceKotlin("1.3")` `public annotation class ExperimentalTypeInference`, `"/` `*` 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.internal` `*` Specifies that the corresponding type should be ignored during type inference. `*` `@Target(AnnotationTarget.TYPE)` `@Retention(AnnotationRetention.BINARY)` `internal annotation class NoInfer` `*` Specifies that the constraint built for the type during type inference should be an equality one. `*` `@Target(AnnotationTarget.TYPE)` `@Retention(AnnotationRetention.BINARY)` `internal annotation class Exact` `*` Specifies that a corresponding member has the lowest priority in overload resolution. `*` `@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR)` `@Retention(AnnotationRetention.BINARY)` `internal annotation class LowPriorityInOverloadResolution` `*` Specifies that the corresponding member has the highest priority in overload resolution. Effectively this means that `*` an extension annotated with this annotation will win in overload resolution over a member with the same signature. `*` `@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)` `@Retention(AnnotationRetention.BINARY)` `internal annotation class HidesMembers` `*` The value of this type parameter should be mentioned in input types (argument types, receiver type or expected type). `*` `@Target(AnnotationTarget.TYPE_PARAMETER)` `@Retention(AnnotationRetention.BINARY)` `internal annotation class OnlyInputTypes` `*` Specifies that this function should not be called directly without inlining `*` `@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.PROPERTY_GETTER, AnnotationTarget.PROPERTY_SETTER)` `@Retention(AnnotationRetention.BINARY)` `internal annotation class InlineOnly` `*` Specifies that this declaration can have dynamic receiver type. `*` `@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)` `@Retention(AnnotationRetention.BINARY)` `internal annotation class DynamicExtension` `*` The value of this parameter should be a property reference expression (`this::foo`), referencing a `lateinit` property, `*` the backing field of which is accessible at the point where the corresponding argument is passed. `*` `@Target(AnnotationTarget.VALUE_PARAMETER)` `@Retention(AnnotationRetention.BINARY)` `@SinceKotlin("1.2")` `internal annotation class AccessibleLateinitPropertyLiteral` `*` Specifies that this declaration is only completely supported since the specified version. `*` `*` The Kotlin compiler of an earlier version is going to report a diagnostic on usages of this declaration. `*` The diagnostic message can be specified with `[message]`, or via `[errorCode]` (takes less space, but might not be immediately clear `*` to the user). The diagnostic severity can be specified with `[level]`: `WARNING/ERROR` mean that either a warning or an error `*` is going to be reported, `HIDDEN` means that the declaration is going to be removed from resolution completely. `*` `*` `[versionKind]` specifies which version should be compared with the `[version]` value, when compiling the usage of the annotated declaration. `*` Note that prior to 1.2, only `[RequireKotlinVersionKind.LANGUAGE_VERSION]` was supported, so the Kotlin compiler before 1.2 is going to `*` treat any `[RequireKotlin]` as if it requires the language version. Since 1.2, the Kotlin compiler supports `*` `[RequireKotlinVersionKind.LANGUAGE_VERSION]`, `[RequireKotlinVersionKind.COMPILER_VERSION]` and `[RequireKotlinVersionKind.API_VERSION]`. `*` If the actual value of `[versionKind]` is something different (e.g. a new version kind, added in future versions of Kotlin), `*` Kotlin 1.2 is going to ignore this `[RequireKotlin]` altogether, where as Kotlin before 1.2 is going to treat this as a requirement `*` on the language version. `*` `*` This annotation is erased at compile time; its arguments are stored in a more compact form in the Kotlin metadata. `*` `@Target(AnnotationTarget.CLASS,`

```

AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR,
AnnotationTarget.TYPEALIAS)\n@Retention(AnnotationRetention.SOURCE)\n@Repeatable\n@SinceKotlin("1.
2")\ninternal annotation class RequireKotlin(\n val version: String,\n val message: String = "",\n val level:
DeprecationLevel = DeprecationLevel.ERROR,\n val versionKind: RequireKotlinVersionKind =
RequireKotlinVersionKind.LANGUAGE_VERSION,\n val errorCode: Int = -1)\n\n/**\n * The kind of the
version that is required by [RequireKotlin].\n */\n@SinceKotlin("1.2")\ninternal enum class
RequireKotlinVersionKind {\n LANGUAGE_VERSION,\n COMPILER_VERSION,\n
API_VERSION,\n}\n\n/**\n * Specifies that this declaration is a part of special DSL, used for constructing
function's contract.\n */\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin("1.2")\ninternal annotation
class ContractsDsl\n\n/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.properties\n\nimport kotlin.reflect.KProperty\n\n/**\n * Standard
property delegates.\n */\npublic object Delegates {\n /**\n * Returns a property delegate for a read/write
property with a non-`null` value that is initialized not during\n * object construction time but at a later time.
Trying to read the property before the initial value has been\n * assigned results in an exception.\n */\n *
@sample samples.properties.Delegates.notNullDelegate\n */\n public fun <T : Any> notNull():\n
ReadWriteProperty<Any?, T> = NotNullVar()\n\n /**\n * Returns a property delegate for a read/write property
that calls a specified callback function when changed.\n * @param initialValue the initial value of the property.\n
 * @param onChange the callback which is called after the change of the property is made. The value of the
property\n * has already been changed when this callback is invoked.\n */\n * @sample
samples.properties.Delegates.observableDelegate\n */\n public inline fun <T> observable(initialValue: T,
crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Unit):\n
ReadWriteProperty<Any?, T> =\n object : ObservableProperty<T>(initialValue) {\n override fun
afterChange(property: KProperty<*>, oldValue: T, newValue: T) = onChange(property, oldValue, newValue)\n
 }\n\n /**\n * Returns a property delegate for a read/write property that calls a specified callback function when
changed,\n * allowing the callback to veto the modification.\n * @param initialValue the initial value of the
property.\n * @param onChange the callback which is called before a change to the property value is attempted.\n
 * The value of the property hasn't been changed yet, when this callback is invoked.\n * If the callback returns
`true` the value of the property is being set to the new value,\n * and if the callback returns `false` the new value
is discarded and the property remains its old value.\n */\n * @sample
samples.properties.Delegates.vetoableDelegate\n * @sample
samples.properties.Delegates.throwVetoableDelegate\n */\n public inline fun <T> vetoable(initialValue: T,
crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Boolean):\n
ReadWriteProperty<Any?, T> =\n object : ObservableProperty<T>(initialValue) {\n override fun
beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = onChange(property, oldValue,
newValue)\n }\n\n private class NotNullVar<T : Any>(): ReadWriteProperty<Any?, T> {\n private var
value: T? = null\n public override fun getValue(thisRef: Any?, property: KProperty<*>): T {\n return value
?: throw IllegalStateException("Property ${property.name} should be initialized before get.")\n }\n public
override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {\n this.value = value\n
 }\n\n }\n\n /*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
 */\n\n package kotlin.properties\n\n import kotlin.reflect.KProperty\n\n /**\n * Base interface that can be used for
implementing property delegates of read-only properties.\n */\n * This is provided only for convenience; you don't
have to extend this interface\n * as long as your property delegate has methods with the same signatures.\n */\n *
@param T the type of object which owns the delegated property.\n * @param V the type of the property value.\n
 */\n * @public fun interface ReadOnlyProperty<in T, out V> {\n /**\n * Returns the value of the property for the
given object.\n * @param thisRef the object for which the value is requested.\n * @param property the
metadata for the property.\n * @return the property value.\n */\n public operator fun getValue(thisRef: T,

```

```

property: KProperty<*>): V\n}\n\n/**\n * Base interface that can be used for implementing property delegates of
read-write properties.\n *\n * This is provided only for convenience; you don't have to extend this interface\n * as
long as your property delegate has methods with the same signatures.\n *\n * @param T the type of object which
owns the delegated property.\n * @param V the type of the property value.\n */\npublic interface
ReadWriteProperty<in T, V> : ReadOnlyProperty<T, V> {\n /**\n * Returns the value of the property for the
given object.\n * @param thisRef the object for which the value is requested.\n * @param property the
metadata for the property.\n * @return the property value.\n */\n public override operator fun
getValue(thisRef: T, property: KProperty<*>): V\n\n /**\n * Sets the value of the property for the given
object.\n * @param thisRef the object for which the value is requested.\n * @param property the metadata for
the property.\n * @param value the value to set.\n */\n public operator fun setValue(thisRef: T, property:
KProperty<*>, value: V)\n}\n\n/**\n * Base interface that can be used for implementing property delegate
providers.\n *\n * This is provided only for convenience; you don't have to extend this interface\n * as long as your
delegate provider has a method with the same signature.\n *\n * @param T the type of object which owns the
delegated property.\n * @param D the type of property delegates this provider provides.\n
*/\n\n@SinceKotlin("1.4")\npublic fun interface PropertyDelegateProvider<in T, out D> {\n /**\n * Returns the
delegate of the property for the given object.\n *\n * This function can be used to extend the logic of creating
the object (e.g. perform validation checks)\n * to which the property implementation is delegated.\n *\n *
@param thisRef the object for which property delegate is requested.\n * @param property the metadata for the
property.\n * @return the property delegate.\n */\n public operator fun provideDelegate(thisRef: T, property:
KProperty<*>): D\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.properties\n\nimport kotlin.reflect.KProperty\n\n/**\n *
Implements the core logic of a property delegate for a read/write property that calls callback functions when
changed.\n * @param initialValue the initial value of the property.\n */\npublic abstract class
ObservableProperty<V>(initialValue: V) : ReadWriteProperty<Any?, V> {\n private var value = initialValue\n\n /**\n * The callback which is called before a change to the property value is attempted.\n * The value of the
property hasn't been changed yet, when this callback is invoked.\n * If the callback returns `true` the value of the
property is being set to the new value,\n * and if the callback returns `false` the new value is discarded and the
property remains its old value.\n */\n protected open fun beforeChange(property: KProperty<*>, oldValue: V,
newValue: V): Boolean = true\n\n /**\n * The callback which is called after the change of the property is made.
The value of the property\n * has already been changed when this callback is invoked.\n */\n protected open
fun afterChange(property: KProperty<*>, oldValue: V, newValue: V): Unit {} \n\n public override fun
getValue(thisRef: Any?, property: KProperty<*>): V {\n return value\n }\n\n public override fun
setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n val oldValue = this.value\n if
(!beforeChange(property, oldValue, value)) {\n return\n }\n this.value = value\n afterChange(property, oldValue, value)\n }\n}\n\n"/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n@file:Suppress("PackageDirectoryMismatch")\npackage
kotlin\n\nimport kotlin.reflect.*\n\n/**\n * An extension operator that allows delegating a read-only property of type
[V]\n * to a property reference to a property of type [V] or its subtype.\n *\n * @receiver A property reference to a
read-only or mutable property of type [V] or its subtype.\n * The reference is without a receiver, i.e. it either
references a top-level property or\n * has the receiver bound to it.\n *\n * Example:\n *\n * ```\n * class Login(val
username: String)\n * val defaultLogin = Login("Admin")\n * val defaultUsername by defaultLogin::username\n *
// equivalent to\n * val defaultUserName get() = defaultLogin.username\n * ```\n
*/\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V>
KProperty0<V>.getValue(thisRef: Any?, property: KProperty<*>): V {\n return get()\n}\n\n/**\n * An extension
operator that allows delegating a mutable property of type [V]\n * to a property reference to a mutable property of
the same type [V].\n *\n * @receiver A property reference to a mutable property of type [V].\n * The reference is

```



```

/**\n * Gets the next random `Long` from the random number generator.\n *\n * Generates a `Long` random value uniformly distributed between `Long.MIN_VALUE` and `Long.MAX_VALUE` (inclusive).\n *\n * @sample samples.random.Randoms.nextLong\n */\n public open fun nextLong(): Long = nextInt().toLong().shl(32) + nextInt()\n\n /**\n * Gets the next random non-negative `Long` from the random number generator less than the specified [until] bound.\n *\n * Generates a `Long` random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n *\n * @param until must be positive.\n *\n * @throws IllegalArgumentException if [until] is negative or zero.\n *\n * @sample samples.random.Randoms.nextLongFromUntil\n */\n public open fun nextLong(until: Long): Long = nextLong(0, until)\n\n /**\n * Gets the next random `Long` from the random number generator in the specified range.\n *\n * Generates a `Long` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n *\n * @sample samples.random.Randoms.nextLongFromUntil\n */\n public open fun nextLong(from: Long, until: Long): Long {\n checkRangeBounds(from, until)\n val n = until - from\n if (n > 0) {\n val rnd: Long\n if (n and -n == n) {\n val nLow = n.toInt()\n val nHigh = (n ushr 32).toInt()\n rnd = when {\n nLow != 0 -> {\n val bitCount = fastLog2(nLow)\n // toUInt().toLong()\n nextBits(bitCount).toLong() and 0xFFFF_FFFF\n }\n nHigh == 1 -> {\n // toUInt().toLong()\n nextInt().toLong() and 0xFFFF_FFFF\n }\n else -> {\n val bitCount = fastLog2(nHigh)\n nextBits(bitCount).toLong().shl(32) + (nextInt().toLong() and 0xFFFF_FFFF)\n }\n }\n } else {\n var v: Long\n do {\n val bits = nextLong().ushr(1)\n v = bits % n\n } while (bits - v + (n - 1) < 0)\n rnd = v\n }\n return from + rnd\n } else {\n while (true) {\n val rnd = nextLong()\n if (rnd in from until until) return rnd\n }\n }\n}\n\n /**\n * Gets the next random [Boolean] value.\n *\n * @sample samples.random.Randoms.nextBoolean\n */\n public open fun nextBoolean(): Boolean = nextBits(1) != 0\n\n /**\n * Gets the next random [Double] value uniformly distributed between 0 (inclusive) and 1 (exclusive).\n *\n * @sample samples.random.Randoms.nextDouble\n */\n public open fun nextDouble(): Double = doubleFromParts(nextBits(26), nextBits(27))\n\n /**\n * Gets the next random non-negative `Double` from the random number generator less than the specified [until] bound.\n *\n * Generates a `Double` random value uniformly distributed between 0 (inclusive) and [until] (exclusive).\n *\n * @throws IllegalArgumentException if [until] is negative or zero.\n *\n * @sample samples.random.Randoms.nextDoubleFromUntil\n */\n public open fun nextDouble(until: Double): Double = nextDouble(0.0, until)\n\n /**\n * Gets the next random `Double` from the random number generator in the specified range.\n *\n * Generates a `Double` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * [from] and [until] must be finite otherwise the behavior is unspecified.\n *\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n *\n * @sample samples.random.Randoms.nextDoubleFromUntil\n */\n public open fun nextDouble(from: Double, until: Double): Double {\n checkRangeBounds(from, until)\n val size = until - from\n val r = if (size.isInfinite() && from.isFinite() && until.isFinite()) {\n val r1 = nextDouble() * (until / 2 - from / 2)\n from + r1 + r1\n } else {\n from + nextDouble() * size\n }\n return if (r >= until) until.nextDown() else r\n}\n\n /**\n * Gets the next random [Float] value uniformly distributed between 0 (inclusive) and 1 (exclusive).\n *\n * @sample samples.random.Randoms.nextFloat\n */\n public open fun nextFloat(): Float = nextBits(24) / (1 shl 24).toFloat()\n\n /**\n * Fills a subrange of the specified byte [array] starting from [fromIndex] inclusive and ending [toIndex] exclusive\n * with random bytes.\n *\n * @return [array] with the subrange filled with random bytes.\n *\n * @sample samples.random.Randoms.nextBytes\n */\n public open fun nextBytes(array: ByteArray, fromIndex: Int = 0, toIndex: Int = array.size): ByteArray {\n require(fromIndex in 0..array.size && toIndex in 0..array.size) { "\"fromIndex ($fromIndex) or toIndex ($toIndex) are out of range: 0..${array.size}.\"" }\n require(fromIndex <= toIndex) { "\"fromIndex ($fromIndex) must be not greater than toIndex ($toIndex).\"" }\n val steps = (toIndex - fromIndex) / 4\n var position = fromIndex\n
```

```

repeat(steps) {
 val v = nextInt()
 array[position] = v.toByte()
 array[position + 1] =
v.ushr(8).toByte()
 array[position + 2] = v.ushr(16).toByte()
 array[position + 3] =
v.ushr(24).toByte()
 position += 4
}
val remainder = toIndex - position
val vr =
nextBits(remainder * 8)
for (i in 0 until remainder) {
 array[position + i] = vr.ushr(i * 8).toByte()
}
return array
}
/**
 * Fills the specified byte [array] with random bytes and returns it.
 * @return [array] filled with random bytes.
 * @sample samples.random.Randoms.nextBytes
 */
public open fun nextBytes(array: ByteArray): ByteArray = nextBytes(array, 0, array.size)
/**
 * Creates a
byte array of the specified [size], filled with random bytes.
 * @sample
samples.random.Randoms.nextBytes
 */
public open fun nextBytes(size: Int): ByteArray =
nextBytes(ByteArray(size))
/**
 * The default random number generator.
 * On JVM this
generator is thread-safe, its methods can be invoked from multiple threads.
 * @sample
samples.random.Randoms.defaultRandom
 */
companion object Default : Random(), Serializable {
 private val defaultRandom: Random = defaultPlatformRandom()
 private object Serialized : Serializable {
 private const val serialVersionUID = 0L
 private fun readResolve(): Any = Random()
 }
 private fun writeReplace(): Any = Serialized
 override fun nextBits(bitCount: Int): Int =
defaultRandom.nextBits(bitCount)
 override fun nextInt(): Int = defaultRandom.nextInt()
 override fun
nextInt(until: Int): Int = defaultRandom.nextInt(until)
 override fun nextInt(from: Int, until: Int): Int =
defaultRandom.nextInt(from, until)
 override fun nextLong(): Long = defaultRandom.nextLong()
 override fun nextLong(until: Long): Long = defaultRandom.nextLong(until)
 override fun nextLong(from:
Long, until: Long): Long = defaultRandom.nextLong(from, until)
 override fun nextBoolean(): Boolean =
defaultRandom.nextBoolean()
 override fun nextDouble(): Double = defaultRandom.nextDouble()
 override fun nextDouble(until: Double): Double = defaultRandom.nextDouble(until)
 override fun
nextDouble(from: Double, until: Double): Double = defaultRandom.nextDouble(from, until)
 override fun
nextFloat(): Float = defaultRandom.nextFloat()
 override fun nextBytes(array: ByteArray): ByteArray =
defaultRandom.nextBytes(array)
 override fun nextBytes(size: Int): ByteArray =
defaultRandom.nextBytes(size)
 override fun nextBytes(array: ByteArray, fromIndex: Int, toIndex: Int):
ByteArray =
defaultRandom.nextBytes(array, fromIndex, toIndex)
}
}
/**
 * Returns a repeatable
random number generator seeded with the given [seed] `Int` value.
 * Two generators with the same seed
produce the same sequence of values within the same version of Kotlin runtime.
 * Note: Future versions of
Kotlin may change the algorithm of this seeded number generator so that it will return
 * a sequence of values
different from the current one for a given seed.
 * On JVM the returned generator is NOT thread-safe. Do not
invoke it from multiple threads without proper synchronization.
 * @sample
samples.random.Randoms.seededRandom
 */
@SinceKotlin("1.3")
public fun Random(seed: Int): Random =
XorWowRandom(seed, seed.shr(31))
/**
 * Returns a repeatable random number generator seeded with the
given [seed] `Long` value.
 * Two generators with the same seed produce the same sequence of values within
the same version of Kotlin runtime.
 * Note: Future versions of Kotlin may change the algorithm of this
seeded number generator so that it will return
 * a sequence of values different from the current one for a given
seed.
 * On JVM the returned generator is NOT thread-safe. Do not invoke it from multiple threads without
proper synchronization.
 * @sample samples.random.Randoms.seededRandom
 */
@SinceKotlin("1.3")
public fun Random(seed: Long): Random = XorWowRandom(seed.toInt(),
seed.shr(32).toInt())
/**
 * Gets the next random `Int` from the random number generator in the specified
[range].
 * Generates an `Int` random value uniformly distributed in the specified [range]:
 * from `range.start`
inclusive to `range.endInclusive` inclusive.
 * @throws IllegalArgumentException if [range] is empty.
 */
@SinceKotlin("1.3")
public fun Random.nextInt(range: IntRange): Int = when {
 range.isEmpty() -> throw
IllegalArgumentException("Cannot get random in empty range: $range")
 range.last < Int.MAX_VALUE ->
nextInt(range.first, range.last + 1)
 range.first > Int.MIN_VALUE -> nextInt(range.first - 1, range.last) + 1
 else -> nextInt()
}
/**
 * Gets the next random `Long` from the random number generator in the specified
[range].
 * Generates a `Long` random value uniformly distributed in the specified [range]:
 * from

```



```

distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n * \n * @throws
IllegalArgumentExcepion if [from] is greater than or equal to [until].\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextULong(from: ULong, until: ULong): ULong {\n checkULongRangeBounds(from, until)\n\n val
signedFrom = from.toLong() xor Long.MIN_VALUE\n val signedUntil = until.toLong() xor
Long.MIN_VALUE\n\n val signedResult = nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE\n
return signedResult.toULong()\n}\n\n/**\n * Gets the next random [ULong] from the random number generator in
the specified [range].\n * Generates a [ULong] random value uniformly distributed in the specified [range]:\n *
from `range.start` inclusive to `range.endInclusive` inclusive.\n * \n * @throws IllegalArgumentExcepion if [range]
is empty.\n *\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
Random.nextULong(range: ULongRange): ULong = when {\n range.isEmpty() -> throw
IllegalArgumentExcepion("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\ninternal fun checkUIntRangeBounds(from: UInt, until: UInt) = require(until >
from) { boundsErrorMessage(from, until) }\ninternal fun checkULongRangeBounds(from: ULong, until: ULong) =
require(until > from) { boundsErrorMessage(from, until) }\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\n/**\n * Random number generator,
using Marsaglia's "xorwow" algorithm\n * \n * Cycles after 2^192 - 2^32 repetitions.\n * \n * For more details, see
Marsaglia, George (July 2003). "Xorshift RNGs". Journal of Statistical Software. 8 (14).
doi:10.18637/jss.v008.i14\n * \n * Available at https://www.jstatsoft.org/v08/i14/paper\n * \n *\ninternal class
XorWowRandom internal constructor(\n private var x: Int,\n private var y: Int,\n private var z: Int,\n private
var w: Int,\n private var v: Int,\n private var addend: Int\n) : Random(), Serializable {\n\n internal
constructor(seed1: Int, seed2: Int) :n this(seed1, seed2, 0, 0, seed1.inv(), (seed1 shl 10) xor (seed2 ushr
4))\n\n init {\n require((x or y or z or w or v) != 0) {"Initial state must have at least one non-zero element."
}\n\n // some trivial seeds can produce several values with zeroes in upper bits, so we discard first 64\n
repeat(64) { nextInt() }\n }\n\n override fun nextInt(): Int {\n // Equivalent to the xorwow algorithm\n //
From Marsaglia, G. 2003. Xorshift RNGs. J. Statis. Soft. 8, 14, p. 5\n var t = x\n t = t xor (t ushr 2)\n x
= y\n y = z\n z = w\n val v0 = v\n w = v0\n t = (t xor (t shl 1)) xor v0 xor (v0 shl 4)\n v =
t\n addend += 362437\n return t + addend\n }\n\n override fun nextBits(bitCount: Int): Int =\n
nextInt().takeUpperBits(bitCount)\n\n private companion object {\n private const val serialVersionUID: Long
= 0L\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("RangesKt")\n\npackage
kotlin.ranges\n\n/**\n * Represents a range of [Comparable] values.\n *\nprivate open class ComparableRange<T :
Comparable<T>>(\n override val start: T,\n override val endInclusive: T\n) : ClosedRange<T> {\n\n override
fun equals(other: Any?): Boolean {\n return other is ComparableRange<*> && (isEmpty() && other.isEmpty())
||\n start == other.start && endInclusive == other.endInclusive\n }\n\n override fun hashCode(): Int

```



```

class represented by this [KClass] object.\n * Throws an exception if the value is `null` or if it is not an instance of
this class.\n *\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@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@LowPriorityInOverloadResoluti
on\nfun <T : Any> KClass<T>.cast(value: Any?): T {\n if (!isInstance(value)) throw ClassCastException("Value
cannot be cast to $qualifiedOrSimpleName")\n return value as T\n}\n// TODO: replace with qualifiedName
when it is fully supported in K/JS\ninternal expect val KClass<*>.qualifiedOrSimpleName: String?\n/**\n * Casts
the given [value] to the class represented by this [KClass] object.\n * Returns `null` if the value is `null` or if it is not
an instance of this class.\n *\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@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@LowPriorityInOverloadResoluti
on\nfun <T : Any> KClass<T>.safeCast(value: Any?): T? {\n return if (isInstance(value)) value as T else
null\n}\n", "/*\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of
this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*\n@npackage kotlin.reflect\nimport kotlin.jvm.JvmField\nimport kotlin.jvm.JvmStatic\n\n\n/**\n * Represents
a type projection. Type projection is usually the argument to another type in a type usage.\n * For example, in the
type `Array<out Number>`, `out Number` is the covariant projection of the type represented by the class
`Number`.\n *\n * Type projection is either the star projection, or an entity consisting of a specific type plus optional
variance.\n *\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#type-
projections)\n * for more information.\n *\n@SinceKotlin("1.1")\npublic data class KTypeProjection
constructor(\n /**\n * The use-site variance specified in the projection, or `null` if this is a star projection.\n
*\n * public val variance: KVariance?,\n /**\n * The type specified in the projection, or `null` if this is a star
projection.\n *\n * public val type: KType?) {\n\n init {\n require((variance == null) == (type == null))
{\n if (variance == null)\n "Star projection must have no type specified." else\n
"The projection variance $variance requires type to be specified." }\n }\n\n override fun toString():
String = when (variance) {\n null -> "*" else\n KVariance.INVARIANT -> type.toString()\n
KVariance.IN -> "in $type"\n KVariance.OUT -> "out $type"\n }\n\n public companion object {\n //
provided for compiler access\n @JvmField\n @PublishedApi\n internal val star: KTypeProjection =
KTypeProjection(null, null)\n\n /**\n * Star projection, denoted by the `*` character.\n * For example,
in the type `KClass<*>`, `*` is the star projection.\n * See the [Kotlin language
documentation](https://kotlinlang.org/docs/reference/generics.html#star-projections)\n * for more
information.\n *\n * public val STAR: KTypeProjection get() = star\n\n /**\n * Creates an
invariant projection of a given type. Invariant projection is just the type itself,\n * without any use-site variance
modifiers applied to it.\n * For example, in the type `Set<String>`, `String` is an invariant projection of the type
represented by the class `String`.\n *\n * @JvmStatic\n * public fun invariant(type: KType):
KTypeProjection =\n KTypeProjection(KVariance.INVARIANT, type)\n\n /**\n * Creates a
contravariant projection of a given type, denoted by the `in` modifier applied to a type.\n * For example, in the
type `MutableList<in Number>`, `in Number` is a contravariant projection of the type of class `Number`.\n *\n
 *\n * @JvmStatic\n * public fun contravariant(type: KType): KTypeProjection =\n
 KTypeProjection(KVariance.IN, type)\n\n /**\n * Creates a covariant projection of a given type, denoted
by the `out` modifier applied to a type.\n * For example, in the type `Array<out Number>`, `out Number` is a
covariant projection of the type of class `Number`.\n *\n *\n * @JvmStatic\n * public fun covariant(type:
KType): KTypeProjection =\n KTypeProjection(KVariance.OUT, type)\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.reflect\n\n\n/**\n *
Represents variance applied to a type parameter on the declaration site (*declaration-site variance*),\n * or to a type
in a projection (*use-site variance*).\n *\n * See the [Kotlin language
documentation](https://kotlinlang.org/docs/reference/generics.html#variance)\n * for more information.\n *\n *

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@see [KTypeParameter.variance]\n * @see [KTypeProjection]\n *\n@SinceKotlin("1.1")\nenum class KVariance
{\n /**\n * The affected type parameter or type is *invariant*, which means it has no variance applied to it.\n
*\n INVARIANT,\n\n /**\n * The affected type parameter or type is *contravariant*. Denoted by the `in`
modifier in the source code.\n *\n IN,\n\n /**\n * The affected type parameter or type is *covariant*.
Denoted by the `out` modifier in the source code.\n *\n OUT,\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.reflect\n\n/**\n * Returns a runtime
representation of the given reified type [T] as an instance of [KType].\n *\n * Note that on JVM, the created type has
no annotations ([KType.annotations] returns an empty list)\n * even if the type in the source code is annotated.
Support for type annotations might be added in a future version.\n
*\n\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic inline fun <reified T>
typeOf(): KType =\n throw UnsupportedOperationException("This function is implemented as an intrinsic on all
supported platforms.")\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("StringsKt")\n\npackage
kotlin.text\n\n/**\n * An object to which char sequences and values can be appended.\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 `"\n\n\n\n"` 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`,\n * then characters are appended
as if [value] contained the four characters `"\n\n\n\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 fun append(value:
CharSequence?, startIndex: Int, endIndex: Int): Appendable\n}\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.\n * @param startIndex the beginning (inclusive) of the
subsequence to append.\n * @param endIndex the end (exclusive) of the subsequence to append.\n *\n * @throws
IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of the
[value] character sequence indices or when `startIndex > endIndex`.\n
*\n\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun <T : Appendable>
T.appendRange(value: CharSequence, startIndex: Int, endIndex: Int): T {\n
@Suppress("UNCHECKED_CAST")\n return append(value, startIndex, endIndex) as T\n}\n\n/**\n * Appends
all arguments to the given [Appendable].\n *\npublic fun <T : Appendable> T.append(vararg value:
CharSequence?): T {\n for (item in value)\n append(item)\n return this\n}\n\n/**\n * Appends a line feed
character (`\n`) to this Appendable. *\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
Appendable.appendLine(): Appendable = append("\n")\n\n/**\n * Appends value to the given Appendable and a line
feed character (`\n`) after it. *\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun
Appendable.appendLine(value: CharSequence?): Appendable = append(value).appendLine()\n\n/**\n * Appends value
to the given Appendable and a line feed character (`\n`) after it.\n
*\n\n@SinceKotlin("1.4")\n@kotlin.internal.InlineOnly\npublic inline fun Appendable.appendLine(value: Char):
Appendable = append(value).appendLine()\n\n\ninternal fun <T> Appendable.appendElement(element: T,
transform: ((T) -> CharSequence)?) {\n when {\n transform != null -> append(transform(element))\n
 element is CharSequence? -> append(element)\n element is Char -> append(element)\n else ->

```

```

append(element.toString())\n })\n", "/*\n * 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
kotlin.text\n\n/**\n * Trims leading whitespace characters followed by [marginPrefix] from every line of a source
string and removes\n * the first and the last lines if they are blank (notice difference blank vs empty).\n *\n * Doesn't
affect a line if it doesn't contain [marginPrefix] except the first and the last blank lines.\n *\n * Doesn't preserve the
original line endings.\n *\n * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is
` ` (pipe character).\n *\n * @sample samples.text.Strings.trimMargin\n * @see trimIndent\n * @see
kotlin.text.isWhitespace\n */\n\npublic fun String.trimMargin(marginPrefix: String = "`"): String =\n
replaceIndentByMargin("`", marginPrefix)\n\n/**\n * Detects indent by [marginPrefix] as it does [trimMargin] and
replace it with [newIndent].\n *\n * @param marginPrefix non-blank string, which is used as a margin delimiter.
Default is ` ` (pipe character).\n *\n * @public fun String.replaceIndentByMargin(newIndent: String = "`",
marginPrefix: String = "`"): String {\n require(marginPrefix.isNotBlank()) { "marginPrefix must be non-blank
string." }\n val lines = lines()\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/**\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 */\n\npublic fun
String.trimIndent(): String = replaceIndent("`")\n\n/**\n * Detects a common minimal indent like it does
[trimIndent] and replaces it with the specified [newIndent].\n *\n * @public fun String.replaceIndent(newIndent: String
= "`"): String {\n val lines = lines()\n val minCommonIndent = lines\n .filter(String::isNotBlank)\n
.map(String::indentWidth)\n .minOrNull() ?: 0\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 *\n * @public fun
String.prependIndent(indent: String = " `"): String =\n lineSequence()\n .map {\n when {\n
it.isBlank() -> {\n when {\n it.length < indent.length -> indent\n else -> it\n
}\n }\n } else -> indent + it\n }\n .joinToString("\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\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 .joinTo(StringBuilder(resultSizeEstimate), "\n")\n .toString()\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 *\n * @public object Typography {\n /** The character "
\u2013 quotation mark *\n public const val quote: Char = "\u0022"\n /** The character $ \u2013 dollar
sign *\n public const val dollar: Char = "\u0024"\n /** The character & \u2013 ampersand *\n public
const val amp: Char = "\u0026"\n /** The character < \u2013 less-than sign *\n public const val less:
Char = "\u003C"\n /** The character > \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 × *^ public const val times: Char = "\u00D7"n /** The character ¢ *^ public const
val cent: Char = "\u00A2"n /** The character £ *^ public const val pound: Char = "\u00A3"n /** The
character § *^ public const val section: Char = "\u00A7"n /** The character © *^ public const
val copyright: Char = "\u00A9"n /** The character « *^ @SinceKotlin("1.6")n public const val
leftGuillemet: Char = "\u00AB"n /** The character » *^ @SinceKotlin("1.6")n public const val
rightGuillemet: Char = "\u00BB"n /** The character ® *^ public const val registered: Char =
"\u00AE"n /** The character ° *^ public const val degree: Char = "\u00B0"n /** The character
± *^ public const val plusMinus: Char = "\u00B1"n /** The character ¶ *^ public const val
paragraph: Char = "\u00B6"n /** The character · *^ public const val middleDot: Char = "\u00B7"n
/** The character ½ *^ public const val half: Char = "\u00BD"n /** The character – *^
public const val ndash: Char = "\u2013"n /** The character — *^ public const val mdash: Char =
"\u2014"n /** The character ‘ *^ public const val leftSingleQuote: Char = "\u2018"n /** The
character ’ *^ public const val rightSingleQuote: Char = "\u2019"n /** The character ‚ *^
public const val lowSingleQuote: Char = "\u201A"n /** The character “ *^ public const val
leftDoubleQuote: Char = "\u201C"n /** The character ” *^ public const val rightDoubleQuote: Char
= "\u201D"n /** The character „ *^ public const val lowDoubleQuote: Char = "\u201E"n /** The
character † *^ public const val dagger: Char = "\u2020"n /** The character ‡ *^ public
const val doubleDagger: Char = "\u2021"n /** The character • *^ public const val bullet: Char =
"\u2022"n /** The character … *^ public const val ellipsis: Char = "\u2026"n /** The character
′ *^ public const val prime: Char = "\u2032"n /** The character ″ *^ public const val
doublePrime: Char = "\u2033"n /** The character € *^ public const val euro: Char = "\u20AC"n
/** The character ™ *^ public const val tm: Char = "\u2122"n /** The character ≈ *^
public const val almostEqual: Char = "\u2248"n /** The character ≠ *^ public const val notEqual:
Char = "\u2260"n /** The character ≤ *^ public const val lessOrEqual: Char = "\u2264"n /** The
character ≥ *^ public const val greaterOrEqual: Char = "\u2265"n /** The character « *^
@Deprecated("This constant has a typo in the name. Use leftGuillemet instead.")
ReplaceWith("Typography.leftGuillemet")n @DeprecatedSinceKotlin("1.6")n public const val
leftGuillemete: Char = "\u00AB"n /** The character » *^ @Deprecated("This constant has a typo in
the name. Use rightGuillemet instead.") ReplaceWith("Typography.rightGuillemet")n
@DeprecatedSinceKotlin("1.6")n public const val rightGuillemete: Char = "\u00BB"n}"/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.textn/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 * 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
andn * 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 0n * 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

```

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MatchResult {\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 * 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 * 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.matchDeconstructingToGroupValues\n */\n public val groupValues: List<String>\n\n
/**\n * An instance of [MatchResult.Destructured] wrapper providing components for deconstructing 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.matchDeconstructingToGroupValues\n */\n
public val destructured: Destructured get() = Destructured(this)\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 * Provides components for
deconstructing 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 *
@sample samples.text.Regexps.matchDeconstructingToGroupValues\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.matchDeconstructingToGroupValues\n */\n public fun toList():
List<String> = match.groupValues.subList(1, match.groupValues.size)\n }\n }"/\n\n * Copyright 2010-2021
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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("DurationUnitKt")\n\npackage
kotlin.time\n\n/**\n * The list of possible time measurement units, in which a duration can be expressed.\n *\n
* The smallest time unit is [NANOSECONDS] and the largest is [DAYS], which corresponds to exactly 24
[HOURS].\n */\n\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalTime::class)\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/** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified

```

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[targetUnit]. *

@SinceKotlin("1.3")\ninternal expect fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double\n// overflown result is unspecified

@SinceKotlin("1.5")\ninternal expect fun convertDurationUnitOverflow(value: Long, sourceUnit: DurationUnit, targetUnit: DurationUnit): Long\n// overflown result is coerced in the Long range boundaries

@SinceKotlin("1.5")\ninternal expect fun convertDurationUnit(value: Long, sourceUnit: DurationUnit, targetUnit: DurationUnit): Long

@SinceKotlin("1.3")\n@Suppress("REDUNDANT_ELSE_IN_WHEN")\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" else -> error("Unknown unit: $this")\n}\n@SinceKotlin("1.5")\ninternal fun durationUnitByShortName(shortName: String): DurationUnit = when (shortName) {\n "ns" -> DurationUnit.NANOSECONDS\n "us" -> DurationUnit.MICROSECONDS\n "ms" -> DurationUnit.MILLISECONDS\n "s" -> DurationUnit.SECONDS\n "m" -> DurationUnit.MINUTES\n "h" -> DurationUnit.HOURS\n "d" -> DurationUnit.DAYS\n else -> throw IllegalArgumentException("Unknown duration unit short name: $shortName")\n}\n@SinceKotlin("1.5")\ninternal fun durationUnitByIsoChar(isoChar: Char, isTimeComponent: Boolean): DurationUnit =\n when {\n !isTimeComponent -> {\n when (isoChar) {\n 'D' -> DurationUnit.DAYS\n else -> throw IllegalArgumentException("Invalid or unsupported duration ISO non-time unit: $isoChar")\n }\n }\n else -> {\n when (isoChar) {\n 'H' -> DurationUnit.HOURS\n 'M' -> DurationUnit.MINUTES\n 'S' -> DurationUnit.SECONDS\n else -> throw IllegalArgumentException("Invalid duration ISO time unit: $isoChar")\n }\n }\n }\n}"/**\n * Copyright 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 */\npackage kotlin.time\nimport kotlin.annotation.AnnotationTarget.*\n * This annotation marks the experimental preview of the standard library API for measuring time and working with durations.\n * > Note that this API is in a preview state and has a very high chance of being changed in the future.\n * Do not use it if you develop a library since your library will become binary incompatible\n * with the future versions of the standard library.\n * Any usage of a declaration annotated with `@ExperimentalTime` must be accepted either by\n * annotating that usage with the [OptIn] annotation, e.g. `@OptIn(ExperimentalTime::class)`\n * or by using the compiler argument `-opt-in=kotlin.time.ExperimentalTime`\n */\n@RequiresOptIn(level = RequiresOptIn.Level.ERROR)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Target(\n CLASS,\n ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n PROPERTY_SETTER,\n TYPEALIAS\n)\n@SinceKotlin("1.3")\npublic annotation class ExperimentalTime"/**\n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.time\n/**\n * A source of time for measuring time intervals.\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 * @see [measureTime]\n * @see [measureTimedValue]\n */\n@SinceKotlin("1.3")\n@ExperimentalTime\npublic interface TimeSource {\n /**\n * Marks a point in time on this time source.\n * The returned [TimeMark] instance encapsulates the captured time point and allows querying\n * the duration of time interval [elapsed][TimeMark.elapsedNow] from that point.\n */\n public fun markNow(): TimeMark\n /**\n * The most precise time source available in the platform.\n * This time source returns its readings from a source of monotonic time when it is available in a target platform,\n * and resorts to a non-monotonic time source otherwise.\n */\n public object Monotonic : TimeSource by MonotonicTimeSource {\n override fun toString(): String = MonotonicTimeSource.toString()\n }\n}

```

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public companion object {
}

/**
 * Represents a time point notched on a particular [TimeSource].
 * Remains bound to the time source it was taken from and allows querying for the duration of time elapsed from
 * that point (see the function [elapsedNow]).
 */
@SinceKotlin("1.3")
@ExperimentalTime
public abstract class TimeMark {
 /**
 * Returns the amount of time passed from this mark measured with the time source from
 * which this mark was taken.
 * Note that the value returned by this function can change on subsequent
 * invocations.
 */
 public abstract fun elapsedNow(): Duration

 /**
 * Returns a time mark on the same
 * time source that is ahead of this time mark by the specified [duration].
 * The returned time mark is more
 * _late_ when the [duration] is positive, and more _early_ when the [duration] is negative.
 */
 public open
 operator fun plus(duration: Duration): TimeMark = AdjustedTimeMark(this, duration)

 /**
 * Returns a
 * time mark on the same time source that is behind this time mark by the specified [duration].
 * The
 * returned time mark is more _early_ when the [duration] is positive, and more _late_ when the [duration] is
 * negative.
 */
 public open operator fun minus(duration: Duration): TimeMark = plus(-duration)

 /**
 * Returns true if this time mark has passed according to the time source from which this mark was taken.
 * Note that the value returned by this function can change on subsequent invocations.
 * If the time source is
 * monotonic, it can change only from `false` to `true`, namely, when the time mark becomes behind the current point
 * of the time source.
 */
 public fun hasPassedNow(): Boolean = !elapsedNow().isNegative()

 /**
 * Returns false if this time mark has not passed according to the time source from which this mark was taken.
 * Note that the value returned by this function can change on subsequent invocations.
 * If the time source is
 * monotonic, it can change only from `true` to `false`, namely, when the time mark becomes behind the current point
 * of the time source.
 */
 public fun hasNotPassedNow(): Boolean =
 elapsedNow().isNegative()
}

@ExperimentalTime
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Deprecated(" Subtracting one TimeMark from another is not a well defined operation because these time marks
could have been obtained from the different time sources.", level =
 DeprecationLevel.ERROR)
@Suppress("UNUSED_PARAMETER")
public inline operator fun
TimeMark.minus(other: TimeMark): Duration = throw Error("Operation is
disallowed.")

@ExperimentalTime
@SinceKotlin("1.3")
@kotlin.internal.InlineOnly
@Deprecated(" Comparing one TimeMark to another is not a well defined operation because these time marks could have been
obtained from the different time sources.", level =
 DeprecationLevel.ERROR)
@Suppress("UNUSED_PARAMETER")
public inline operator fun
TimeMark.compareTo(other: TimeMark): Int = throw Error("Operation is
disallowed.")

private class AdjustedTimeMark(val mark: TimeMark, val adjustment:
Duration) : TimeMark() {
 override fun elapsedNow(): Duration = mark.elapsedNow() - adjustment
 override fun plus(duration: Duration): TimeMark = AdjustedTimeMark(mark, adjustment + duration)
}

/**
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 * Use of this source code is
 * governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.
 */
package
kotlin.time

@SinceKotlin("1.3")
@ExperimentalTime
internal expect object MonotonicTimeSource :
TimeSource {
 /**
 * An abstract class used to implement time sources that return their readings as [Long] values
 * in the specified [unit].
 * @property unit The unit in which this time source's readings are expressed.
 */
 @SinceKotlin("1.3")
 @ExperimentalTime
 public abstract class AbstractLongTimeSource(protected val
unit: DurationUnit) : TimeSource {
 /**
 * This protected method should be overridden to return the current
 * reading of the time source expressed as a [Long] number
 * in the unit specified by the [unit] property.
 */
 protected abstract fun read(): Long

 private class LongTimeMark(private val startedAt: Long, private val
timeSource: AbstractLongTimeSource, private val offset: Duration) : TimeMark() {
 override fun
elapsedNow(): Duration = (timeSource.read() - startedAt).toDuration(timeSource.unit) - offset
 override fun
plus(duration: Duration): TimeMark = LongTimeMark(startedAt, timeSource, offset + duration)
 }

 override
fun markNow(): TimeMark = LongTimeMark(read(), this, Duration.ZERO)
}

/**
 * An abstract class used to
 * implement time sources that return their readings as [Double] values in the specified [unit].
 * @property unit
 * The unit in which this time source's readings are expressed.
 */

```

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*^@SinceKotlin("1.3")^@ExperimentalTime^public 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^nn 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 }^nn
override fun markNow(): TimeMark = DoubleTimeMark(read(), this, Duration.ZERO)^nn/**^n * A time source
that has programmatically updatable readings. It is useful as a predictable source of time in tests.^n *^n * The current
reading value can be advanced by the specified duration amount with the operator [plusAssign]:^n *^n * ``^n * val
timeSource = TestTimeSource()^n * timeSource += 10.seconds^n * ``^n *^n * Implementation note: the current
reading value is stored as a [Long] number of nanoseconds,^n * thus it's capable to represent a time range of
approximately \u00b1292 years.^n * Should the reading value overflow as the result of [plusAssign] operation, an
[IllegalStateException] is thrown.^n *^@SinceKotlin("1.3")^@ExperimentalTime^public class TestTimeSource
: AbstractLongTimeSource(unit = DurationUnit.NANOSECONDS) {^n private var reading: Long = 0L^nn
override fun read(): Long = reading^nn /**^n * Advances the current reading value of this time source by the
specified [duration].^n *^n * [duration] value is rounded down towards zero when converting it to a [Long]
number of nanoseconds.^n * For example, if the duration being added is `0.6.nanoseconds`, the reading doesn't
advance because^n * the duration value is rounded to zero nanoseconds.^n *^n * @throws
IllegalStateException when the reading value overflows as the result of this operation.^n *^n public operator fun
plusAssign(duration: Duration) {^n val longDelta = duration.toLong(unit)^n reading = if (longDelta !=
Long.MIN_VALUE && longDelta != Long.MAX_VALUE) {^n // when delta fits in long, add it as long^nn
val newReading = reading + longDelta^nn if (reading xor longDelta >= 0 && reading xor newReading < 0)
overflow(duration)^nn newReading^nn } else {^n val delta = duration.toDouble(unit)^n // when
delta is greater than long, add it as double^nn val newReading = reading + delta^nn if (newReading >
Long.MAX_VALUE || newReading < Long.MIN_VALUE) overflow(duration)^nn newReading.toLong()^nn
}^nn }^nn private fun overflow(duration: Duration) {^n throw IllegalStateException("TestTimeSource will
overflow if its reading ${reading}ns is advanced by $duration.")^nn }^nn}^nn/**^n * Copyright 2010-2020 JetBrains
s.r.o. and Kotlin Programming Language contributors.^n * Use of this source code is governed by the Apache 2.0
license that can be found in the license/LICENSE.txt file.^n *^@^n^package kotlin.time^nnimport
kotlin.contracts.*^nn/**^n * Executes the given function [block] and returns the duration of elapsed time interval.^n
*^n * The elapsed time is measured with [TimeSource.Monotonic].^n
*^@SinceKotlin("1.3")^@ExperimentalTime^public inline fun measureTime(block: () -> Unit): Duration {^n
contract {^n callsInPlace(block, InvocationKind.EXACTLY_ONCE)^nn }^nn return
TimeSource.Monotonic.measureTime(block)^nn}^nn/**^n * Executes the given function [block] and returns the
duration of elapsed time interval.^n *^n * The elapsed time is measured with the specified `this` [TimeSource]
instance.^n *^@SinceKotlin("1.3")^@ExperimentalTime^public inline fun TimeSource.measureTime(block: ()
-> Unit): Duration {^n contract {^n callsInPlace(block, InvocationKind.EXACTLY_ONCE)^nn }^nn val
mark = markNow()^nn block()^nn return mark.elapsedNow()^nn}^nn/**^n * Data class representing a result of
executing an action, along with the duration of elapsed time interval.^n *^n * @property value the result of the
action.^n * @property duration the time elapsed to execute the action.^n
*^@SinceKotlin("1.3")^@ExperimentalTime^public data class TimedValue<T>(val value: T, val duration:
Duration)^nn/**^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 *^n * The elapsed time is
measured with [TimeSource.Monotonic].^n *^@SinceKotlin("1.3")^@ExperimentalTime^public inline fun <T>
measureTimedValue(block: () -> T): TimedValue<T> {^n contract {^n callsInPlace(block,
InvocationKind.EXACTLY_ONCE)^nn }^nn return
TimeSource.Monotonic.measureTimedValue(block)^nn}^nn/**^n * Executes the given [block] and returns an

```

instance of [TimedValue] class, containing both

- the result of function execution and the duration of elapsed time interval.
- The elapsed time is measured with the specified `TimeSource` instance.

```

*\/@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 val mark = markNow()\n val result = block()\n return TimedValue(result, mark.elapsedNow())\n}\n"/*\n
Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is
governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage
kotlin\n\nimport kotlin.coroutines.*\nimport kotlin.coroutines.intrinsics.*\nimport
kotlin.native.concurrent.SharedImmutable\n\n/**\n * Defines deep recursive function that keeps its stack on the
heap,\n * which allows very deep recursive computations that do not use the actual call stack.\n * To initiate a call to
this deep recursive function use its [invoke] function.\n * As a rule of thumb, it should be used if recursion goes
deeper than a thousand calls.\n */\n * The [DeepRecursiveFunction] takes one parameter of type [T] and returns a
result of type [R].\n * The [block] of code defines the body of a recursive function. In this block\n *
[callRecursive][DeepRecursiveScope.callRecursive] function can be used to make a recursive call\n * to the
declared function. Other instances of [DeepRecursiveFunction] can be called\n * in this scope with `callRecursive`
extension, too.\n */\n * For example, take a look at the following recursive tree class and a deeply\n * recursive
instance of this tree with 100K nodes:\n */\n * ```\n * class Tree(val left: Tree? = null, val right: Tree? = null)\n * val
deepTree = generateSequence(Tree()) { Tree(it) }.take(100_000).last()\n * ```\n * A regular recursive function
can be defined to compute a depth of a tree:\n */\n * ```\n * fun depth(t: Tree?): Int =\n * if (t == null) 0 else
max(depth(t.left), depth(t.right)) + 1\n * println(depth(deepTree)) // StackOverflowError\n * ```\n * If this
`depth` function is called for a `deepTree` it produces [StackOverflowError] because of deep recursion.\n *
However, the `depth` function can be rewritten using `DeepRecursiveFunction` in the following way, and then\n * it
successfully computes [depth(deepTree)][DeepRecursiveFunction.invoke] expression:\n */\n * ```\n * val depth =
DeepRecursiveFunction<Tree?, Int> { t ->\n * if (t == null) 0 else max(callRecursive(t.left),
callRecursive(t.right)) + 1\n * }\n * println(depth(deepTree)) // Ok\n * ```\n * Deep recursive functions can also
mutually call each other using a heap for the stack via\n * [callRecursive][DeepRecursiveScope.callRecursive]
extension. For example, the\n * following pair of mutually recursive functions computes the number of tree nodes at
even depth in the tree.\n */\n * ```\n * val mutualRecursion = object {\n * val even:
DeepRecursiveFunction<Tree?, Int> = DeepRecursiveFunction { t ->\n * if (t == null) 0 else
odd.callRecursive(t.left) + odd.callRecursive(t.right) + 1\n * }\n * val odd: DeepRecursiveFunction<Tree?,
Int> = DeepRecursiveFunction { t ->\n * if (t == null) 0 else even.callRecursive(t.left) +
even.callRecursive(t.right)\n * }\n * }\n * ```\n * @param [T] the function parameter type.\n * @param [R]
the function result type.\n * @param block the function body.\n
*/\n@SinceKotlin("1.4")\n@ExperimentalStdlibApi\npublic class DeepRecursiveFunction<T, R>(\n internal val
block: suspend DeepRecursiveScope<T, R>.(T) -> R)\n\n/**\n * Initiates a call to this deep recursive function,
forming a root of the call tree.\n */\n * This operator should not be used from inside of [DeepRecursiveScope] as it
uses the call stack slot for\n * initial recursive invocation. From inside of [DeepRecursiveScope] use\n *
[callRecursive][DeepRecursiveScope.callRecursive].\n
*/\n@SinceKotlin("1.4")\n@ExperimentalStdlibApi\npublic operator fun <T, R> DeepRecursiveFunction<T,
R>.invoke(value: T): R =\n DeepRecursiveScopeImpl<T, R>(block, value).runCallLoop()\n\n/**\n * A scope
class for [DeepRecursiveFunction] function declaration that defines [callRecursive] methods to\n * recursively call
this function or another [DeepRecursiveFunction] putting the call activation frame on the heap.\n */\n * @param [T]
function parameter type.\n * @param [R] function result type.\n
*/\n@RestrictsSuspension\n@SinceKotlin("1.4")\n@ExperimentalStdlibApi\npublic sealed class
DeepRecursiveScope<T, R> {\n /**\n * Makes recursive call to this [DeepRecursiveFunction] function putting
the call activation frame on the heap,\n * as opposed to the actual call stack that is used by a regular recursive
call.\n */\n public abstract suspend fun callRecursive(value: T): R\n\n /**\n * Makes call to the
specified [DeepRecursiveFunction] function putting the call activation frame on the heap,\n * as opposed to the
actual call

```



Byte.floorDiv(other: Byte): Int = \n this.toInt().floorDiv(other.toInt())\n\n/\*\*\n \* Calculates the remainder of flooring division of this value by the other value.\n \* \n \* The result is either zero or has the same sign as the \_divisor\_ and has the absolute value less than the absolute value of the divisor.\n

\*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.mod(other: Byte): Byte = \n this.toInt().mod(other.toInt()).toByte()\n\n/\*\* Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. \*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.floorDiv(other: Short): Int = \n this.toInt().floorDiv(other.toInt())\n\n/\*\*\n \* Calculates the remainder of flooring division of this value by the other value.\n \* \n \* The result is either zero or has the same sign as the \_divisor\_ and has the absolute value less than the absolute value of the divisor.\n

\*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.mod(other: Short): Short = \n this.toInt().mod(other.toInt()).toShort()\n\n/\*\* Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. \*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.floorDiv(other: Int): Int = \n this.toInt().floorDiv(other)\n\n/\*\*\n \* Calculates the remainder of flooring division of this value by the other value.\n \* \n \* The result is either zero or has the same sign as the \_divisor\_ and has the absolute value less than the absolute value of the divisor.\n

\*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.mod(other: Int): Int = \n this.toInt().mod(other)\n\n/\*\* Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. \*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.floorDiv(other: Long): Long = \n this.toLong().floorDiv(other)\n\n/\*\*\n \* Calculates the remainder of flooring division of this value by the other value.\n \* \n \* The result is either zero or has the same sign as the \_divisor\_ and has the absolute value less than the absolute value of the divisor.\n

\*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.mod(other: Long): Long = \n this.toLong().mod(other)\n\n/\*\* Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. \*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Short.floorDiv(other: Byte): Int = \n this.toInt().floorDiv(other.toInt())\n\n/\*\*\n \* Calculates the remainder of flooring division of this value by the other value.\n \* \n \* The result is either zero or has the same sign as the \_divisor\_ and has the absolute value less than the absolute value of the divisor.\n

\*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Short.mod(other: Byte): Byte = \n this.toInt().mod(other.toInt()).toByte()\n\n/\*\* Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. \*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Short.floorDiv(other: Short): Int = \n this.toInt().floorDiv(other.toInt())\n\n/\*\*\n \* Calculates the remainder of flooring division of this value by the other value.\n \* \n \* The result is either zero or has the same sign as the \_divisor\_ and has the absolute value less than the absolute value of the divisor.\n

\*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Short.mod(other: Short): Short = \n this.toInt().mod(other.toInt()).toShort()\n\n/\*\* Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. \*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Short.floorDiv(other: Int): Int = \n this.toInt().floorDiv(other)\n\n/\*\*\n \* Calculates the remainder of flooring division of this value by the other value.\n \* \n \* The result is either zero or has the same sign as the \_divisor\_ and has the absolute value less than the absolute value of the divisor.\n

\*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Short.mod(other: Int): Int = \n this.toInt().mod(other)\n\n/\*\* Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. \*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Short.floorDiv(other: Long): Long = \n this.toLong().floorDiv(other)\n\n/\*\*\n \* Calculates the remainder of flooring division of this value by the other value.\n \* \n \* The result is either zero or has the same sign as the \_divisor\_ and has the absolute value less than the absolute value of the divisor.\n

\*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Short.mod(other: Long): Long = \n this.toLong().mod(other)\n\n/\*\* Divides this value by the other value, flooring the result to an integer that is closer to negative infinity. \*\n@SinceKotlin("1.5")\n@kotlin.internal.InlineOnly\npublic inline fun Int.floorDiv(other: Byte): Int = \n

`this.floorDiv(other.toInt())`  
 \* Calculates the remainder of flooring division of this value by the other value.  
 \* The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.

```
@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Int.mod(other: Byte): Byte = \n this.mod(other.toInt()).toByte()
```

Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

```
@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Int.floorDiv(other: Short): Int = \n this.floorDiv(other.toInt())
```

Calculates the remainder of flooring division of this value by the other value.  
 \* The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.

```
@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Int.mod(other: Short): Short = \n this.mod(other.toInt()).toShort()
```

Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

```
@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Int.floorDiv(other: Int): Int { \n var q = this / other \n if (this xor other < 0 && q * other != this) q-- \n return q }
```

Calculates the remainder of flooring division of this value by the other value.  
 \* The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.

```
@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Int.mod(other: Int): Int { \n val r = this % other \n return r + (other and (((r xor other) and (r or -r)) shr 31)) }
```

Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

```
@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Int.floorDiv(other: Long): Long = \n this.toLong().floorDiv(other)
```

Calculates the remainder of flooring division of this value by the other value.  
 \* The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.

```
@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Int.mod(other: Long): Long = \n this.toLong().mod(other)
```

Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

```
@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Long.floorDiv(other: Byte): Long = \n this.floorDiv(other.toLong())
```

Calculates the remainder of flooring division of this value by the other value.  
 \* The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.

```
@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Long.mod(other: Byte): Byte = \n this.mod(other.toLong()).toByte()
```

Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

```
@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Long.floorDiv(other: Short): Long = \n this.floorDiv(other.toLong())
```

Calculates the remainder of flooring division of this value by the other value.  
 \* The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.

```
@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Long.mod(other: Short): Short = \n this.mod(other.toLong()).toShort()
```

Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

```
@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Long.floorDiv(other: Int): Long = \n this.floorDiv(other.toLong())
```

Calculates the remainder of flooring division of this value by the other value.  
 \* The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.

```
@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Long.mod(other: Int): Int = \n this.mod(other.toLong()).toInt()
```

Divides this value by the other value, flooring the result to an integer that is closer to negative infinity.

```
@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Long.floorDiv(other: Long): Long { \n var q = this / other \n if (this xor other < 0 && q * other != this) q-- \n return q }
```

Calculates the remainder of flooring division of this value by the other value.  
 \* The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.

```
@SinceKotlin("1.5")@kotlin.internal.InlineOnly\npublic inline fun Long.mod(other: Long): Long { \n val r = this % other \n return r + (other and (((r xor other) and (r or -r)) shr 63)) }
```

Calculates the remainder

of flooring division of this value by the other value.  
 \* The result is either zero or has the same sign as the `_divisor_` and has the absolute value less than the absolute value of the divisor.  
 \* If the result cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result can be less than or `_equal to_` the absolute value of the divisor.

```

*\/n@SinceKotlin("1.5")n@kotlin.internal.InlineOnlynpublic inline fun Float.mod(other: Float): Float {n val r = this % othern return if (r != 0.0.toFloat() && r.sign != other.sign) r + other else r}n/n/**n * Calculates the remainder of flooring division of this value by the other value.n * n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.n * n * If the result cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result can be less than or _equal to_ the absolute value of the divisor.n
*\/n@SinceKotlin("1.5")n@kotlin.internal.InlineOnlynpublic inline fun Float.mod(other: Double): Double = n this.toDouble().mod(other)n/n/**n * Calculates the remainder of flooring division of this value by the other value.n * n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.n * n * If the result cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result can be less than or _equal to_ the absolute value of the divisor.n
*\/n@SinceKotlin("1.5")n@kotlin.internal.InlineOnlynpublic inline fun Double.mod(other: Float): Double = n this.mod(other.toDouble())n/n/**n * Calculates the remainder of flooring division of this value by the other value.n * n * The result is either zero or has the same sign as the _divisor_ and has the absolute value less than the absolute value of the divisor.n * n * If the result cannot be represented exactly, it is rounded to the nearest representable number. In this case the absolute value of the result can be less than or _equal to_ the absolute value of the divisor.n
*\/n@SinceKotlin("1.5")n@kotlin.internal.InlineOnlynpublic inline fun Double.mod(other: Double): Double {n val r = this % othern return if (r != 0.0 && r.sign != other.sign) r + other else r}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@InlineOnlynpublic inline fun Any?.hashCode(): Int = this?.hashCode() ?: 0\n"/**n * Copyright 2010-2020 JetBrains s.r.o. and Kotlin Programming Language contributors.n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.n
*\/n\npackage kotlin\n\n/**n * Represents a version of the Kotlin standard library.n * [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 * @constructor Creates a version from all three components.n
*\/n@SinceKotlin("1.1")npublic class KotlinVersion(val major: Int, val minor: Int, val patch: Int) : Comparable<KotlinVersion> {n /**n * Creates a version from [major] and [minor] components, leaving [patch] component zero.n
*\/n public constructor(major: Int, minor: Int) : this(major, minor, 0)n\n private val version = versionOf(major, minor, patch)n\n private fun versionOf(major: Int, minor: Int, patch: Int): Int {n require(major in 0..MAX_COMPONENT_VALUE && minor in 0..MAX_COMPONENT_VALUE && patch in 0..MAX_COMPONENT_VALUE) {n \nVersion components are out of range: $major.$minor.$patch\n }n return major.shl(16) + minor.shl(8) + patch\n }n\n /**n * Returns the string representation of this version.n
*\/n override fun toString(): String = \"$major.$minor.$patch\n\n override fun equals(other: Any?): Boolean {n if (this === other) return true\n val otherVersion = (other as? KotlinVersion) ?: return false\n return this.version == otherVersion.version\n }n\n override fun hashCode(): Int = version\n\n override fun compareTo(other: KotlinVersion): Int = version - other.version\n\n /**n * Returns `true` if this version is not less than the version specified\n * with the provided [major] and [minor] components.n
*\/n public fun isAtLeast(major: Int, minor: Int): Boolean = // this.version >= versionOf(major, minor, 0)\n this.major > major || (this.major == major &&\n this.minor >= minor)n\n\n /**n * Returns `true` if this version is not less than the version specified\n * with the provided [major], [minor] and [patch] components.n
*\/n public fun isAtLeast(major: Int, minor: Int, patch: Int): Boolean = // this.version >= versionOf(major, minor, patch)\n this.major > major || (this.major == major &&\n (this.minor > minor || this.minor == minor

```

```

&&\n this.patch >= patch))\n companion object {\n /**\n * Maximum value a version
component can have, a constant value 255.\n */\n // NOTE: Must be placed before CURRENT because its
initialization requires this field being initialized in JS\n public const val MAX_COMPONENT_VALUE =
255\n\n /**\n * Returns the current version of the Kotlin standard library.\n */\n @kotlin.jvm.JvmField\n public val CURRENT: KotlinVersion = KotlinVersionCurrentValue.get()\n}\n}\n// this class is ignored during classpath normalization when considering whether to recompile dependencies
in Kotlin build\nprivate object KotlinVersionCurrentValue {\n @kotlin.jvm.JvmStatic\n fun get():
KotlinVersion = KotlinVersion(1, 6, 21) // value is written here automatically during build\n},"/*\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName("LateinitKt")\n@file:Suppress("unused")\n\npackage kotlin\n\nimport
kotlin.internal.InlineOnly\nimport kotlin.internal.AccessibleLateinitPropertyLiteral\nimport
kotlin.reflect.KProperty0\n\n/**\n * Returns `true` if this lateinit property has been assigned a value, and `false`
otherwise.\n */\n * Cannot be used in an inline function, to avoid binary compatibility issues.\n
*/\n\n@SinceKotlin("1.2")\n@InlineOnly\ninline val @receiver:AccessibleLateinitPropertyLiteral
KProperty0<*>.isInitialized: Boolean\n get() = throw NotImplementedError("Implementation is
intrinsic")\n},"/*\n * 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\npackage kotlin\n\nimport
kotlin.reflect.KProperty\n\n/**\n * Represents a value with lazy initialization.\n */\n * To create an instance of
[Lazy] use the [lazy] function.\n */\n\npublic 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 /**\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/**\n * Creates a new instance of
the [Lazy] that is already initialized with the specified [value].\n */\n\npublic fun <T> lazyOf(value: T): Lazy<T> =
InitializedLazyImpl(value)\n\n/**\n * An extension to delegate a read-only property of type [T] to an instance of
[Lazy].\n */\n * This extension allows to use instances of Lazy for property delegation:\n * `val property: String by
lazy { initializer }`\n */\n\n@kotlin.internal.InlineOnly\npublic 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\npublic enum class LazyThreadSafetyMode {\n\n /**\n * Locks are used to ensure
that only a single thread can initialize the [Lazy] instance.\n */\n SYNCHRONIZED,\n\n /**\n * Initializer
function can be called several times on concurrent access to uninitialized [Lazy] instance value,\n * but only the
first returned value will be used as the value of [Lazy] instance.\n */\n PUBLICATION,\n\n /**\n * No
locks are used to synchronize an access to the [Lazy] instance value; if the instance is accessed from multiple
threads, its behavior is undefined.\n */\n NONE,\n}\n\n\ninternal object
UNINITIALIZED_VALUE\n\n// internal to be called from lazy in JS\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
 }\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 * 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@SinceKotlin(\"1.4\")\n\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic expect fun

Int.countOneBits(): Int\n\n/\*\*\n \* Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.\n

\*\n\n@SinceKotlin(\"1.4\")\n\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic expect fun

Int.countLeadingZeroBits(): Int\n\n/\*\*\n \* Counts the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.\n

\*\n\n@SinceKotlin(\"1.4\")\n\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic expect fun

Int.countTrailingZeroBits(): Int\n\n/\*\*\n \* Returns a number having a single bit set in the position of the most significant set bit of this [Int] number,\n \* or zero, if this number is zero.\n

\*\n\n@SinceKotlin(\"1.4\")\n\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic expect fun

Int.takeHighestOneBit(): Int\n\n/\*\*\n \* Returns a number having a single bit set in the position of the least significant set bit of this [Int] number,\n \* or zero, if this number is zero.\n

\*\n\n@SinceKotlin(\"1.4\")\n\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic expect fun

Int.takeLowestOneBit(): Int\n\n/\*\*\n \* Rotates the binary representation of this [Int] number left by the specified [bitCount] number of bits.\n \* The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n \* Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n \* `number.rotateLeft(-n) == number.rotateRight(n)`\n \* Rotating by a multiple of [Int.SIZE\_BITS] (32) returns the same number, or more generally\n \* `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n

\*\n\n@SinceKotlin(\"1.6\")\n\n@WasExperimental(ExperimentalStdlibApi::class)\n\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 \* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n \* `number.rotateRight(-n) == number.rotateLeft(n)`\n \* Rotating by a multiple of [Int.SIZE\_BITS] (32) returns the same number, or more generally\n \* `number.rotateRight(n) == number.rotateRight(n % 32)`\n

\*\n\n@SinceKotlin(\"1.6\")\n\n@WasExperimental(ExperimentalStdlibApi::class)\n\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@SinceKotlin(\"1.4\")\n\n@WasExperimental(ExperimentalStdlibApi::class)\n\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@SinceKotlin(\"1.4\")\n\n@WasExperimental(ExperimentalStdlibApi::class)\n\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@SinceKotlin(\"1.4\")\n\n@WasExperimental(ExperimentalStdlibApi::class)\n\npublic expect fun

Long.countTrailingZeroBits(): Int\n\n/\*\*\n \* Returns a number having a single bit set in the position of the most significant set bit of this [Long] number,\n \* or zero, if this number is zero.\n

\*\n\n@SinceKotlin(\"1.4\")\n\n@WasExperimental(ExperimentalStdlibApi::class)\n\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\n@SinceKotlin(\"1.4\")\n\n@WasExperimental(ExperimentalStdlibApi::class)\n\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  
`number.rotateLeft(n) == number.rotateLeft(n % 64)`

`@SinceKotlin("1.6")@WasExperimental(ExperimentalStdlibApi::class)public expect fun`  
**Long.rotateLeft(bitCount: Int): Long**  
 Rotates the binary representation of this [Long] 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 [Long.SIZE\_BITS] (64) returns the same number, or more generally  
`number.rotateRight(n) == number.rotateRight(n % 64)`

`@SinceKotlin("1.6")@WasExperimental(ExperimentalStdlibApi::class)public expect fun`  
**Long.rotateRight(bitCount: Int): Long**  
 Counts the number of set bits in the binary representation of this [Byte] number.

`@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)@kotlin.internal.InlineOnlypublic inline fun`  
**Byte.countOneBits(): Int** = (toInt() and 0xFF).countOneBits()  
 Counts the number of consecutive most significant bits that are zero in the binary representation of this [Byte] number.

`@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)@kotlin.internal.InlineOnlypublic inline fun`  
**Byte.countLeadingZeroBits(): Int** = (toInt() and 0xFF).countLeadingZeroBits() - (Int.SIZE\_BITS - Byte.SIZE\_BITS)  
 Counts the number of consecutive least significant bits that are zero in the binary representation of this [Byte] number.

`@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)@kotlin.internal.InlineOnlypublic inline fun`  
**Byte.countTrailingZeroBits(): Int** = (toInt() or 0x100).countTrailingZeroBits()  
 Returns a number having a single bit set in the position of the most significant set bit of this [Byte] number, or zero, if this number is zero.

`@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)@kotlin.internal.InlineOnlypublic inline fun`  
**Byte.takeHighestOneBit(): Byte** = (toInt() and 0xFF).takeHighestOneBit().toByte()  
 Returns a number having a single bit set in the position of the least significant set bit of this [Byte] number, or zero, if this number is zero.

`@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)@kotlin.internal.InlineOnlypublic inline fun`  
**Byte.takeLowestOneBit(): Byte** = toInt().takeLowestOneBit().toByte()  
 Rotates the binary representation of this [Byte] number left by the specified [bitCount] number of bits. The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side. 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 [Byte.SIZE\_BITS] (8) returns the same number, or more generally  
`number.rotateLeft(n) == number.rotateLeft(n % 8)`

`@SinceKotlin("1.6")@WasExperimental(ExperimentalStdlibApi::class)public fun`  
**Byte.rotateLeft(bitCount: Int): Byte** = (toInt().shl(bitCount and 7) or (toInt() and 0xFF).ushr(8 - (bitCount and 7))).toByte()  
 Rotates the binary representation of this [Byte] number right by the specified [bitCount] number of bits. The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side. 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 [Byte.SIZE\_BITS] (8) returns the same number, or more generally  
`number.rotateRight(n) == number.rotateRight(n % 8)`

`@SinceKotlin("1.6")@WasExperimental(ExperimentalStdlibApi::class)public fun`  
**Byte.rotateRight(bitCount: Int): Byte** = (toInt().shl(8 - (bitCount and 7)) or (toInt() and 0xFF).ushr(bitCount and 7)).toByte()  
 Counts the number of set bits in the binary representation of this [Short] number.

`@SinceKotlin("1.4")@WasExperimental(ExperimentalStdlibApi::class)@kotlin.internal.InlineOnlypublic inline fun`  
**Short.countOneBits(): Int** = (toInt() and 0xFFFF).countOneBits()  
 Counts the number of consecutive most significant bits that are zero in the binary representation of this [Short] number.

\*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.countLeadingZeroBits(): Int =\n (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE\_BITS - Short.SIZE\_BITS)\n\n \* Counts the number of consecutive least significant bits that are zero in the binary representation of this [Short] number.\n

\*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.countTrailingZeroBits(): Int = (toInt() or 0x10000).countTrailingZeroBits()\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

\*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.takeHighestOneBit(): Short = (toInt() and 0xFFFF).takeHighestOneBit().toShort()\n\n \* 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

\*\n@SinceKotlin("1.4")\n@WasExperimental(ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun Short.takeLowestOneBit(): Short = toInt().takeLowestOneBit().toShort()\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

\*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Short.rotateLeft(bitCount: Int): Short =\n (toInt().shl(bitCount and 15) or (toInt() and 0xFFFF).ushr(16 - (bitCount and 15))).toShort()\n\n \* Rotates the binary representation of this [Short] number right by the specified [bitCount] number of bits.\n \* The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n \* Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n \* `number.rotateRight(-n) == number.rotateLeft(n)`\n \* Rotating by a multiple of [Short.SIZE\_BITS] (16) returns the same number, or more generally\n \* `number.rotateRight(n) == number.rotateRight(n % 16)`\n

\*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class)\npublic fun Short.rotateRight(bitCount: Int): Short =\n (toInt().shl(16 - (bitCount and 15)) or (toInt() and 0xFFFF).ushr(bitCount and 15)).toShort()\n\n \* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n \* Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n\n \*\npackage kotlin\nimport kotlin.internal.RequireKotlin\nimport kotlin.internal.RequireKotlinVersionKind\n\n@kotlin.internal.InlineOnly\n@SinceKotlin("1.2")\n@Suppress("INVISIBLE\_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 \* 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")\npackage kotlin\n\n \* Represents a generic pair of two values.\n \* There is no meaning attached to values in this class, it can be used for any purpose.\n \* Pair exhibits value semantics, i.e. two pairs are equal if both components are equal.\n \* An example of decomposing it into values:\n \* @sample samples.misc.Tuples.pairDestructuring\n \* @param A type of the first value.\n \* @param B type of the second value.\n \* @property first First value.\n \* @property second Second value.\n \* @constructor Creates a new instance of Pair.\n\n public data class Pair<out A, out B>(\n public val first: A,\n public val second: B\n ): Serializable {\n /\*\*\n \* Returns string representation of the [Pair] including its [first] and [second] values.\n \*\n public override fun toString(): String = "\$first, \$second"\n\n \* 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 public infix fun <A, B>

```

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 public override fun toString(): String = \"($first, $second, $third)\"\n\n}\n\n/**\n * Converts this triple into a
list.\n * @sample samples.misc.Tuples.tripleToList\n */\npublic fun <T> Triple<T, T, T>.toList(): List<T> =
listOf(first, second, third)\n\n",\n\n/**\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\nimport
kotlin.internal.*\n\n/**\n * A range of values of type `UInt`.\n
*/\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic class UIntRange(start:
UInt, endInclusive: UInt) : UIntProgression(start, endInclusive, 1), ClosedRange<UInt> {\n override val start:
UInt get() = first\n override val endInclusive: UInt get() = last\n\n override fun contains(value: UInt): Boolean =
first <= value && value <= last\n\n /**\n * Checks if the range is empty.\n *\n * The range is empty if its
start value is greater than the end value.\n */\n override fun isEmpty(): Boolean = first > last\n\n override fun
equals(other: Any?): Boolean =\n other is UIntRange && (isEmpty() && other.isEmpty()) ||\n first ==
other.first && last == other.last\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * first.toInt()
+ last.toInt())\n\n override fun toString(): String = \"$first..$last\"\n\n companion object {\n /** An empty
range of values of type UInt. */\n public val EMPTY: UIntRange = UIntRange(UInt.MAX_VALUE,
UInt.MIN_VALUE)\n }\n\n}\n\n/**\n * A progression of values of type `UInt`.\n
*/\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic open class
UIntProgression\n\ninternal constructor(\n start: UInt,\n endInclusive: UInt,\n step: Int\n) : Iterable<UInt> {\n
init {\n if (step == 0.toInt()) throw kotlin.IllegalArgumentException("Step must be non-zero.")\n if (step
== Int.MIN_VALUE) throw kotlin.IllegalArgumentException("Step must be greater than Int.MIN_VALUE to
avoid overflow on negation.")\n }\n\n /**\n * The first element in the progression.\n */\n public val first:
UInt = start\n\n /**\n * The last element in the progression.\n */\n public val last: UInt =
getProgressionLastElement(start, endInclusive, step)\n\n /**\n * The step of the progression.\n */\n public
val step: Int = step\n\n final override fun iterator(): Iterator<UInt> = UIntProgressionIterator(first, last, step)\n\n
/**\n *\n * Checks if the progression is empty.\n *\n * Progression with a positive step is empty if its first
element is greater than the last element.\n * Progression with a negative step is empty if its first element is less
than the last element.\n */\n public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n
override fun equals(other: Any?): Boolean =\n other is UIntProgression && (isEmpty() && other.isEmpty()) ||\n first
== other.first && last == other.last && step == other.step)\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * first.toInt() + last.toInt()) + step.toInt())\n\n override fun toString(): String = if
(step > 0) \"$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 *\n * In
order to go backwards the [step] must be negative.\n *\n * [step] must be greater than `Int.MIN_VALUE`
and not equal to zero.\n */\n public fun fromClosedRange(rangeStart: 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 * @property step the number by which the value is incremented on each step.\n
*/\n\n@SinceKotlin("1.3")\n@Suppress("DEPRECATION_ERROR")\nprivate class UIntProgressionIterator(first:
UInt, last: UInt, step: Int) : UIntIterator() {\n private val finalElement = last\n private var hasNext: Boolean = if

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(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)\n throw kotlin.NoSuchElementException()\n hasNext = false\n } else {\n next += step\n }\n }\n return value\n}\n}\n\n"/**\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.collections\n\n/** An
iterator over a sequence of values of type `UByte`. *\n@Deprecated("This class is not going to be stabilized and is
to be removed soon.", level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\npublic abstract class
UByteIterator : Iterator<UByte> {\n final override fun next() = nextUByte()\n /** Returns the next value in the
sequence without boxing. *\n public abstract fun nextUByte(): UByte\n}\n\n/** An iterator over a sequence of
values of type `UShort`. *\n@Deprecated("This class is not going to be stabilized and is to be removed soon.",
level = DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\npublic abstract class UShortIterator : Iterator<UShort>
{\n final override fun next() = nextUShort()\n /** Returns the next value in the sequence without boxing. *\n
 public abstract fun nextUShort(): UShort\n}\n\n/** An iterator over a sequence of values of type `UInt`.
*\n@Deprecated("This class is not going to be stabilized and is to be removed soon.", level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\npublic abstract class UIntIterator : Iterator<UInt> {\n final
override fun next() = nextUInt()\n /** Returns the next value in the sequence without boxing. *\n public
abstract fun nextUInt(): UInt\n}\n\n/** An iterator over a sequence of values of type `ULong`.
*\n@Deprecated("This class is not going to be stabilized and is to be removed soon.", level =
DeprecationLevel.ERROR)\n@SinceKotlin("1.3")\npublic abstract class ULongIterator : Iterator<ULong> {\n final
override fun next() = nextULong()\n /** Returns the next value in the sequence without boxing. *\n public
abstract fun nextULong(): ULong\n}\n\n"/**\n * Copyright 2010-2022 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage
kotlin.ranges\n\nimport kotlin.internal.*\n\n/** A range of values of type `ULong`. *\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic class
ULongRange(start: ULong, endInclusive: ULong) : ULongProgression(start, endInclusive, 1),
ClosedRange<ULong> {\n override val start: ULong get() = first\n override val endInclusive: ULong get() =
last\n override fun contains(value: ULong): Boolean = first <= value && value <= last\n /** *\n * Checks
if the range is empty.\n *\n * The range is empty if its start value is greater than the end value.\n *\n override fun isEmpty(): Boolean = first > last\n override fun equals(other: Any?): Boolean =\n other is
ULongRange && (isEmpty() && other.isEmpty() ||\n first == other.first && last == other.last)\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (first xor (first shr 32)).toInt() + (last xor (last shr
32)).toInt())\n override fun toString(): String = "$first..$last"\n\n companion object {\n /** An empty
range of values of type ULong. *\n public val EMPTY: ULongRange = ULongRange(ULong.MAX_VALUE,
ULong.MIN_VALUE)\n }\n}\n\n/** A progression of values of type `ULong`. *\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic open class
ULongProgression\n internal constructor(\n start: ULong,\n endInclusive: ULong,\n step: Long\n) :
Iterable<ULong> {\n init {\n if (step == 0.toLong()) 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 * The first element in the
progression.\n *\n public val first: ULong = start\n /** *\n * The last element in the progression.\n *\n public val last: ULong = getProgressionLastElement(start, endInclusive, step)\n /** *\n * The step of the
progression.\n *\n public val step: Long = step\n\n final override fun iterator(): Iterator<ULong> =
ULongProgressionIterator(first, last, step)\n /** *\n * Checks if the progression is empty.\n *\n * Progression with a positive step is empty if its first element is greater than the last element.\n * Progression with a
negative step is empty if its first element is less than the last element.\n *\n public open fun isEmpty(): Boolean

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= if (step > 0) first > last else first < last\n\n override fun equals(other: Any?): Boolean =\n other is\n ULongProgression && (isEmpty() && other.isEmpty()) ||\n first == other.first && last == other.last &&\n step == other.step)\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * (first xor (first shr\n 32)).toInt() + (last xor (last shr 32)).toInt()) + (step xor (step ushr 32)).toInt())\n\n override fun toString(): String =\n if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n\n companion object {\n\n /**\n * Creates ULongProgression within the specified bounds of a closed range.\n * The progression\n 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\n `Long.MIN_VALUE` and not equal to zero.\n *\n public fun fromClosedRange(rangeStart: ULong,\n rangeEnd: ULong, step: Long): ULongProgression = ULongProgression(rangeStart, rangeEnd, step)\n }\n }\n\n /**\n * An iterator over a progression of values of type `ULong`. * @property step the number by which\n the value is incremented on each step.\n */\n\n @SinceKotlin("1.3")\n @Suppress("DEPRECATION_ERROR")\n private class\n ULongProgressionIterator(first: ULong, last: ULong, step: Long) : ULongIterator() {\n private val finalElement =\n last\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n private val step =\n step.toULong() // use 2-complement math for negative steps\n private var next = if (hasNext) first else\n finalElement\n override fun hasNext(): Boolean = hasNext\n override fun nextULong(): ULong {\n val\n 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 /**\n * Copyright\n 2010-2021 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed\n by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n @package kotlin.math\n\n /**\n * Returns the smaller of two values.\n */\n\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n public inline fun min(a: UInt, b: UInt): UInt {\n return minOf(a, b)\n }\n\n /**\n * Returns the smaller of two\n values.\n */\n\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n public inline fun min(a: ULong, b: ULong): ULong {\n return minOf(a, b)\n }\n\n /**\n * Returns the greater of\n two values.\n */\n\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n public inline fun max(a: UInt, b: UInt): UInt {\n return maxOf(a, b)\n }\n\n /**\n * Returns the greater of two\n values.\n */\n\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class)\n @kotlin.internal.InlineOnly\n public inline fun max(a: ULong, b: ULong): ULong {\n return maxOf(a, b)\n }\n\n /**\n * Copyright 2010-2021\n JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the\n Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n @file:kotlin.jvm.JvmName("UNumbersKt")\n @package kotlin\n\n /**\n * Counts the number of set bits in the\n binary representation of this [UInt] number.\n */\n\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class,\n ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UInt.countOneBits(): Int =\n toInt().countOneBits()\n\n /**\n * Counts the number of consecutive most significant bits that are zero in the binary\n representation of this [UInt] number.\n */\n\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class,\n ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UInt.countLeadingZeroBits(): Int =\n toInt().countLeadingZeroBits()\n\n /**\n * Counts the number of consecutive least significant bits that are zero in the\n binary representation of this [UInt] number.\n */\n\n @SinceKotlin("1.5")\n @WasExperimental(ExperimentalUnsignedTypes::class,\n ExperimentalStdlibApi::class)\n @kotlin.internal.InlineOnly\n public inline fun UInt.countTrailingZeroBits(): Int =\n toInt().countTrailingZeroBits()\n\n /**\n * Returns a number having a single bit set in the position of the most

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significant set bit of this [UInt] number, \n \* or zero, if this number is zero.\n

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*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.takeHighestOneBit(): UInt =
toInt().takeHighestOneBit().toUInt()\n\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
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.takeLowestOneBit(): UInt =
toInt().takeLowestOneBit().toUInt()\n\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 *\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 [UInt.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateLeft(n) ==
number.rotateLeft(n % 32)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.rotateLeft(bitCount: Int):
UInt = toInt().rotateLeft(bitCount).toUInt()\n\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 *\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 [UInt.SIZE_BITS] (32) returns the same number, or more generally\n *
`number.rotateRight(n) == number.rotateRight(n % 32)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UInt.rotateRight(bitCount: Int):
UInt = toInt().rotateRight(bitCount).toUInt()\n\n/**\n * Counts the number of set bits in the binary representation
of this [ULong] number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.countOneBits(): Int =
toLong().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the
binary representation of this [ULong] number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.countLeadingZeroBits(): Int =
toLong().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero
in the binary representation of this [ULong] number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.countTrailingZeroBits(): Int =
toLong().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [ULong] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.takeHighestOneBit(): ULong =
toLong().takeHighestOneBit().toULong()\n\n/**\n * Returns a number having a single bit set in the position of the
least significant set bit of this [ULong] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.takeLowestOneBit(): ULong =
toLong().takeLowestOneBit().toULong()\n\n/**\n * Rotates the binary representation of this [ULong] 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 [ULong.SIZE_BITS] (64) returns the same number, or more generally\n *
`number.rotateLeft(n) == number.rotateLeft(n % 64)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,

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ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.rotateLeft(bitCount:
Int): ULong = toLong().rotateLeft(bitCount).toULong()\n\n/**\n * Rotates the binary representation of this [ULong]
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 [ULong.SIZE_BITS] (64) returns the same number, or more generally\n *
`number.rotateRight(n) == number.rotateRight(n % 64)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun ULong.rotateRight(bitCount:
Int): ULong = toLong().rotateRight(bitCount).toULong()\n\n/**\n * Counts the number of set bits in the binary
representation of this [UByte] number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.countOneBits(): Int =
toUInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the
binary representation of this [UByte] number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.countLeadingZeroBits(): Int =
toByte().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in
the binary representation of this [UByte] number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.countTrailingZeroBits(): Int =
toByte().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most
significant set bit of this [UByte] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.takeHighestOneBit(): UByte
= toInt().takeHighestOneBit().toUByte()\n\n/**\n * Returns a number having a single bit set in the position of the
least significant set bit of this [UByte] number,\n * or zero, if this number is zero.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.takeLowestOneBit(): UByte =
toInt().takeLowestOneBit().toUByte()\n\n/**\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 * `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("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.rotateLeft(bitCount:
Int): UByte = toByte().rotateLeft(bitCount).toUByte()\n\n/**\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 * `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("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UByte.rotateRight(bitCount:
Int): UByte = toByte().rotateRight(bitCount).toUByte()\n\n/**\n * Counts the number of set bits in the binary
representation of this [UShort] number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,

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ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\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("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\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("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\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("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\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("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class,
ExperimentalStdlibApi::class)\n@kotlin.internal.InlineOnly\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 * 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 [UShort.SIZE_BITS] (16) returns the same number, or more generally\n *
`number.rotateLeft(n) == number.rotateLeft(n % 16)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.rotateLeft(bitCount:
Int): UShort = toShort().rotateLeft(bitCount).toUShort()\n\n/**\n * Rotates the binary representation of this
[UShort] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the
right side reenter the number as the most significant bits on the left side.\n * 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 [UShort.SIZE_BITS] (16) returns the same number, or more
generally\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\n
*\n@SinceKotlin("1.6")\n@WasExperimental(ExperimentalStdlibApi::class,
ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly\npublic inline fun UShort.rotateRight(bitCount:
Int): UShort = toShort().rotateRight(bitCount).toUShort()\n\n/**\n * Copyright 2010-2021 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n *\n@n\npackage kotlin.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@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

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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 2010-2021 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName("UStringsKt") // string
representation of unsigned numbers\n\npackage kotlin.text\n\n/**\n * Returns a string representation of this [Byte]
value in the specified [radix].\n * @throws IllegalArgumentException when [radix] is not a valid radix for
number to string conversion.\n
*/\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly
\npublic /*inline*/ fun UByte.toString(radix: Int): String = this.toInt().toString(radix)\n\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("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly
\npublic /*inline*/ fun UShort.toString(radix: Int): String = this.toInt().toString(radix)\n\n\n/**\n * Returns a string
representation of this [Int] value in the specified [radix].\n * @throws IllegalArgumentException when [radix] is
not a valid radix for number to string conversion.\n
*/\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\n@kotlin.internal.InlineOnly
\npublic /*inline*/ fun UInt.toString(radix: Int): String = this.toLong().toString(radix)\n\n\n/**\n * Returns a string
representation of this [Long] value in the specified [radix].\n * @throws IllegalArgumentException when [radix]
is not a valid radix for number to string conversion.\n
*/\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
\nULong.toString(radix: Int): String = ulongToString(this.toLong(), checkRadix(radix))\n\n\n/**\n * Parses the string
as a signed [UByte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n
*/\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUByte():
\nUByte = toUByteOrNull() ?: numberFormatException(this)\n\n\n/**\n * Parses the string as a signed [UByte] number and
returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n *
@throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*/\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
\nString.toUByte(radix: Int): UByte = toUByteOrNull(radix) ?: numberFormatException(this)\n\n\n/**\n * Parses the
string as a [UShort] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n
*/\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUShort():
\nUShort = toUShortOrNull() ?: numberFormatException(this)\n\n\n/**\n * Parses the string as a [UShort] number and
returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n *
@throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*/\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
\nString.toUShort(radix: Int): UShort = toUShortOrNull(radix) ?: numberFormatException(this)\n\n\n/**\n * Parses the
string as an [UInt] number and returns the result.\n * @throws NumberFormatException if the string is not a valid
representation of a number.\n
*/

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*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toUInt():
UInt = toUIntOrNull() ?: numberFormatException(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
IllegalArgumentOutOfRangeException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toUInt(radix: Int): UInt = toUIntOrNull(radix) ?: numberFormatException(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("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun String.toULong():
ULong = toULongOrNull() ?: numberFormatException(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 IllegalArgumentOutOfRangeException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toULong(radix: Int): ULong = toULongOrNull(radix) ?: numberFormatException(this)\n\n\n\n\n\n\n\n\n\n\n\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\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
IllegalArgumentOutOfRangeException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\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("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\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
IllegalArgumentOutOfRangeException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\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("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\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
IllegalArgumentOutOfRangeException when [radix] is not a valid radix for string to number conversion.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toUIntOrNull(radix: Int): UInt? {\n checkRadix(radix)\n val length = this.length\n if (length == 0)
return null\n val limit: UInt = UInt.MAX_VALUE\n val start: Int\n val firstChar = this[0]\n if (firstChar
< '0') {\n if (length == 1 || firstChar != '+') return null\n start = 1\n } else {\n start = 0\n }\n val
limitForMaxRadix = 119304647u // limit / 36\n 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 if
(digit < 0) return null\n if (result > limitBeforeMul) {\n if (limitBeforeMul == limitForMaxRadix) {\n
 limitBeforeMul = limit / uradix\n if (result > limitBeforeMul) {\n return null\n
 }\n } else {\n return null\n }\n }\n result *= uradix\n val beforeAdding =
result\n result += digit.toUInt()\n if (result < beforeAdding) return null // overflow has happened\n }\n return result\n}\n\n/**\n * Parses the string as an [ULong] number and returns the result\n * or `null` if the string is
not a valid representation of a number.\n
*\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\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 *\n * @throws
IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n
*/\n\n@SinceKotlin("1.5")\n@WasExperimental(ExperimentalUnsignedTypes::class)\npublic fun
String.toULongOrNull(radix: Int): ULong? {\n checkRadix(radix)\n\n val length = this.length\n if (length ==
0) return null\n\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\n if (digit < 0) return null\n if (result > limitBeforeMul) {\n if
(limitBeforeMul == limitForMaxRadix) {\n limitBeforeMul = limit / uradix\n\n if (result >
limitBeforeMul) {\n return null\n }\n } else {\n return null\n }\n
}\n\n result *= uradix\n\n val beforeAdding = result\n result += digit.toUInt()\n if (result <
beforeAdding) return null // overflow has happened\n }\n\n return result\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:Suppress("INVISIBLE_REFERENCE", "INVISIBLE_MEMBER")\npackage kotlin\n\nimport
kotlin.annotation.AnnotationTarget\n\nimport kotlin.internal.RequireKotlin\n\nimport
kotlin.internal.RequireKotlinVersionKind\n\n/**\n * Marks the API that is dependent on the experimental unsigned
types, including those types themselves.\n\n *\n * Usages of such API will be reported as warnings unless an explicit
opt-in with\n * the [OptIn] annotation, e.g. `@OptIn(ExperimentalUnsignedTypes::class)`,\n * or with the
`-opt-in=kotlin.ExperimentalUnsignedTypes` compiler option is given.\n\n *\n * It's recommended to propagate the
experimental status to the API that depends on unsigned types by annotating it with this annotation.\n
*/\n\n@RequiresOptIn(level = RequiresOptIn.Level.WARNING)\n@MustBeDocumented\n@Target(CLASS,
ANNOTATION_CLASS, PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER,
CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER,
TYPEALIAS)\n@Retention(AnnotationRetention.BINARY)\n@RequireKotlin("1.2.50", versionKind =
RequireKotlinVersionKind.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
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
kotlin.math\n\n\n// constants, can't use them from nativeMath as they are not constants there\n\n/** Ratio of the
circumference of a circle to its diameter, approximately 3.14159. */\n@SinceKotlin("1.2")\npublic const val PI:
Double = 3.141592653589793\n\n/** Base of the natural logarithms, approximately 2.71828.
*/\n@SinceKotlin("1.2")\npublic const val E: Double = 2.718281828459045\n\n// region =====\nDouble Math
=====)\n\n/** Computes the sine of the angle [x]
given in radians.\n\n *\n * Special cases:\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\n\n */\n@SinceKotlin("1.2")\npublic
expect fun sin(x: Double): Double\n\n/** Computes the cosine of the angle [x] given in radians.\n\n *\n * Special
cases:\n * - `cos(NaN|+Inf|-Inf)` is `NaN`\n\n */\n@SinceKotlin("1.2")\npublic expect fun cos(x: Double):
Double\n\n/** Computes the tangent of the angle [x] given in radians.\n\n *\n * Special cases:\n * - `tan(NaN|+Inf|-
Inf)` is `NaN`\n\n */\n@SinceKotlin("1.2")\npublic expect fun tan(x: Double): Double\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 *\n * Special
cases:\n * - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n\n */\n@SinceKotlin("1.2")\npublic expect fun
asin(x: Double): Double\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 *\n * Special cases:\n * - `acos(x)` is `NaN`, when `abs(x) > 1` or x is
`NaN`\n\n */\n@SinceKotlin("1.2")\npublic expect fun acos(x: Double): Double\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 *\n * Special
cases:\n * - `atan(NaN)` is `NaN`\n\n */\n@SinceKotlin("1.2")\npublic expect fun atan(x: Double): Double\n\n/**\n

```

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:**

- $\text{atan2}(0.0, 0.0)$  is  $0.0$
- $\text{atan2}(0.0, x)$  is  $0.0$  for  $x > 0$  and  $\pi$  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  $\pi$  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  $\text{NaN}$

```

* /n @SinceKotlin("1.2") /n public expect fun atan2(y: Double, x: Double): Double /n /n /n * Computes the
hyperbolic sine of the value [x].
* /n * Special cases:
* - `sinh(NaN)` is `NaN`
* - `sinh(+Inf)` is `+Inf`
* - `sinh(-Inf)` is `-Inf`
* /n @SinceKotlin("1.2") /n public expect fun sinh(x: Double): Double /n /n /n * Computes
the hyperbolic cosine of the value [x].
* /n * Special cases:
* - `cosh(NaN)` is `NaN`
* - `cosh(+Inf)` is `+Inf`
* - `cosh(-Inf)` is `-Inf`
* /n @SinceKotlin("1.2") /n public expect fun cosh(x: Double): Double /n /n /n * Computes the hyperbolic
tangent of the value [x].
* /n * Special cases:
* - `tanh(NaN)` is `NaN`
* - `tanh(+Inf)` is `1.0`
* - `tanh(-Inf)` is `-1.0`
* /n @SinceKotlin("1.2") /n public expect fun tanh(x: Double): Double /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:
* - `asinh(NaN)` is `NaN`
* - `asinh(+Inf)` is `+Inf`
* - `asinh(-Inf)` is `-Inf`
* /n @SinceKotlin("1.2") /n public expect fun asinh(x: Double): Double /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:
* - `acosh(NaN)` is `NaN`
* - `acosh(x)` is `NaN` when `x < 1`
* - `acosh(+Inf)` is `+Inf`
* /n @SinceKotlin("1.2") /n public expect fun acosh(x: Double): Double /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:
* - `tanh(NaN)` is `NaN`
* - `tanh(x)` is `NaN` when `x > 1` or `x < -1`
* - `tanh(1.0)` is `+Inf`
* - `tanh(-1.0)` is `-Inf`
* /n @SinceKotlin("1.2") /n public expect fun atanh(x: Double): Double /n /n /n * Computes
`sqrt(x^2 + y^2)` without intermediate overflow or underflow.
* /n * Special cases:
* - returns `+Inf` if any of
arguments is infinite
* - returns `NaN` if any of arguments is `NaN` and the other is not infinite
* /n @SinceKotlin("1.2") /n public expect fun hypot(x: Double, y: Double): Double /n /n /n * Computes the
positive square root of the value [x].
* /n * Special cases:
* - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`
* /n @SinceKotlin("1.2") /n public expect fun sqrt(x: Double): Double /n /n /n * Computes Euler's number `e`
raised to the power of the value [x].
* /n * Special cases:
* - `exp(NaN)` is `NaN`
* - `exp(+Inf)` is `+Inf`
* - `exp(-Inf)` is `0.0`
* /n @SinceKotlin("1.2") /n public expect fun exp(x: Double): Double /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:
* - `expm1(NaN)` is `NaN`
* - `expm1(+Inf)` is `+Inf`
* - `expm1(-Inf)` is `-1.0`
* @see [exp] function.
* /n @SinceKotlin("1.2") /n public expect fun expm1(x: Double): Double /n /n /n *
Computes the logarithm of the value [x] to the given [base].
* /n * Special cases:
* - `log(x, b)` is `NaN` if
either `x` or `b` are `NaN`
* - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`
* - `log(+Inf, +Inf)`
is `NaN`
* - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`
* - `log(0.0, b)` is `-Inf` for `b > 1` and
`+Inf` for `b < 1`
* /n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].
* /n @SinceKotlin("1.2") /n public expect fun log(x: Double, base: Double): Double /n /n /n * Computes the
natural logarithm (base `E`) of the value [x].
* /n * Special cases:
* - `ln(NaN)` is `NaN`
* - `ln(x)` is `NaN`
when `x < 0.0`
* - `ln(+Inf)` is `+Inf`
* - `ln(0.0)` is `-Inf`
* /n @SinceKotlin("1.2") /n public expect fun
ln(x: Double): Double /n /n /n * Computes the common logarithm (base 10) of the value [x].
* /n * @see [ln]
function for special cases.
* /n @SinceKotlin("1.2") /n public expect fun log10(x: Double): Double /n /n /n *
Computes the binary logarithm (base 2) of the value [x].
* /n * @see [ln] function for special cases.
* /n @SinceKotlin("1.2") /n public expect fun log2(x: Double): Double /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:
* - `ln1p(NaN)` is `NaN`
* - `ln1p(x)` is `NaN` where `x < -1.0`
* - `ln1p(-1.0)` is `-Inf`
* - `ln1p(+Inf)` is
`+Inf`
* /n * @see [ln] function
* /n * @see [expm1] function
* /n @SinceKotlin("1.2") /n public expect fun
ln1p(x: Double): Double /n /n /n * Rounds the given value [x] to an integer towards positive infinity.
* /n * @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")\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: `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-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: `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-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: `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-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: `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, `0` if the value is zero, `1.0` if the value is positive

Special case: `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.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")\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.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, `0` if the value is zero, `1.0` if the value is positive

Special case: `NaN.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.ulp` is `NaN`, `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`, `0.0.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")\npublic 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")\npublic 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:  $x.\text{roundToLong}() == \text{Long.MAX\_VALUE}$  when  $x > \text{Long.MAX\_VALUE}$   
 $x.\text{roundToLong}() == \text{Long.MIN\_VALUE}$  when  $x < \text{Long.MIN\_VALUE}$   
@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:  $\sin(\text{NaN}|\text{+Inf}|\text{-Inf})$  is NaN  
@SinceKotlin("1.2")  
public expect fun sin(x: Float): Float  
\*\* Computes the cosine of the angle [x] given in radians.  
Special cases:  $\cos(\text{NaN}|\text{+Inf}|\text{-Inf})$  is NaN  
@SinceKotlin("1.2")  
public expect fun cos(x: Float): Float  
\*\* Computes the tangent of the angle [x] given in radians.  
Special cases:  $\tan(\text{NaN}|\text{+Inf}|\text{-Inf})$  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  $-\text{PI}/2$  to  $\text{PI}/2$  radians.  
Special cases:  $\text{asin}(x)$  is NaN, when  $|\text{abs}(x)| > 1$  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  $\text{PI}$  radians.  
Special cases:  $\text{acos}(x)$  is NaN, when  $|\text{abs}(x)| > 1$  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  $-\text{PI}/2$  to  $\text{PI}/2$  radians.  
Special cases:  $\text{atan}(\text{NaN})$  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  $-\text{PI}$  to  $\text{PI}$  radians.  
Special cases:  $\text{atan2}(0.0, 0.0)$  is  $0.0$   
 $\text{atan2}(0.0, x)$  is  $0.0$  for  $x > 0$  and  $\text{PI}$  for  $x < 0$   
 $\text{atan2}(-0.0, x)$  is  $-0.0$  for  $x > 0$  and  $-\text{PI}$  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  $\text{PI}$  for  $0 < y < \text{+Inf}$  and  $-\text{PI}$  for  $-\text{Inf} < y < 0$   
 $\text{atan2}(y, 0.0)$  is  $\text{PI}/2$  for  $y > 0$  and  $-\text{PI}/2$  for  $y < 0$   
 $\text{atan2}(\text{+Inf}, x)$  is  $\text{PI}/2$  for finite  $x$   
 $\text{atan2}(\text{-Inf}, x)$  is  $-\text{PI}/2$  for finite  $x$   
 $\text{atan2}(\text{NaN}, x)$  and  $\text{atan2}(y, \text{NaN})$  is NaN  
@SinceKotlin("1.2")  
public expect fun atan2(y: Float, x: Float): Float  
\*\* Computes the hyperbolic sine of the value [x].  
Special cases:  $\sinh(\text{NaN})$  is NaN  
 $\sinh(\text{+Inf})$  is  $\text{+Inf}$   
 $\sinh(\text{-Inf})$  is  $-\text{Inf}$   
@SinceKotlin("1.2")  
public expect fun sinh(x: Float): Float  
\*\* Computes the hyperbolic cosine of the value [x].  
Special cases:  $\cosh(\text{NaN})$  is NaN  
 $\cosh(\text{+Inf}|\text{-Inf})$  is  $\text{+Inf}$   
@SinceKotlin("1.2")  
public expect fun cosh(x: Float): Float  
\*\* 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  $-1.0$   
@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:  $\text{asinh}(\text{NaN})$  is NaN  
 $\text{asinh}(\text{+Inf})$  is  $\text{+Inf}$   
 $\text{asinh}(\text{-Inf})$  is  $-\text{Inf}$   
@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:  $\text{acosh}(\text{NaN})$  is NaN  
 $\text{acosh}(x)$  is NaN when  $x < 1$   
 $\text{acosh}(\text{+Inf})$  is  $\text{+Inf}$   
@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:  $\text{atanh}(\text{NaN})$  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  $-\text{Inf}$   
@SinceKotlin("1.2")  
public expect fun atanh(x: Float): Float  
\*\* 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  
@SinceKotlin("1.2")  
public expect fun hypot(x: Float, y: Float): Float  
\*\* Computes the positive square root of the value [x].  
Special cases:  $\sqrt{x}$  is NaN when  $x < 0$  or  $x$  is NaN  
@SinceKotlin("1.2")  
public expect fun sqrt(x: Float): Float  
\*\* 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  $0.0$   
@SinceKotlin("1.2")  
public expect fun exp(x: Float): Float  
\*\* 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  $\text{NaN}$   $\text{expm1}(+\text{Inf})$  is  $+\text{Inf}$   $\text{expm1}(-\text{Inf})$  is  $-1.0$   $\text{@see}$  [exp] function.

`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  $\text{NaN}$  if either  $x$  or  $b$  are  $\text{NaN}$ \n * -  $\log(x, b)$  is  $\text{NaN}$  when  $x < 0$  or  $b \leq 0$  or  $b == 1.0$ \n * -  $\log(+\text{Inf}, +\text{Inf})$  is  $\text{NaN}$ \n * -  $\log(+\text{Inf}, b)$  is  $+\text{Inf}$  for  $b > 1$  and  $-\text{Inf}$  for  $b < 1$ \n * -  $\log(0.0, b)$  is  $-\text{Inf}$  for  $b > 1$  and  $+\text{Inf}$  for  $b > 1$ \n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\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 * -  $\ln(\text{NaN})$  is  $\text{NaN}$ \n * -  $\ln(x)$  is  $\text{NaN}$  when  $x < 0.0$ \n * -  $\ln(+\text{Inf})$  is  $+\text{Inf}$ \n * -  $\ln(0.0)$  is  $-\text{Inf}$`

`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`

`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`

`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 * -  $\ln1p(\text{NaN})$  is  $\text{NaN}$ \n * -  $\ln1p(x)$  is  $\text{NaN}$  where  $x < -1.0$ \n * -  $\ln1p(-1.0)$  is  $-\text{Inf}$ \n * -  $\ln1p(+\text{Inf})$  is  $+\text{Inf}$ \n * @see [ln] function\n * @see [expm1] function\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 * -  $\text{ceil}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.\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 * -  $\text{floor}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.\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 * -  $\text{truncate}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.\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 * -  $\text{round}(x)$  is  $x$  where  $x$  is  $\text{NaN}$  or  $+\text{Inf}$  or  $-\text{Inf}$  or already a mathematical integer.\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 * -  $\text{abs}(\text{NaN})$  is  $\text{NaN}$ \n * @see absoluteValue extension property for [Float]\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 * -  $\text{sign}(\text{NaN})$  is  $\text{NaN}$ \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  $\text{NaN}$ , then the result is  $\text{NaN}$ .`

`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  $\text{NaN}$ , then the result is  $\text{NaN}$ .`

`SinceKotlin("1.2")\npublic expect fun max(a: Float, b: Float): Float\n\n// extensions\n\n**\n * Raises this value to the power [x].\n * Special cases:\n * -  $b.\text{pow}(0.0)$  is  $1.0$ \n * -  $b.\text{pow}(1.0) == b$ \n * -  $b.\text{pow}(\text{NaN})$  is  $\text{NaN}$ \n * -  $\text{NaN}.\text{pow}(x)$  is  $\text{NaN}$  for  $x != 0.0$ \n * -  $b.\text{pow}(\text{Inf})$  is  $\text{NaN}$  for  $\text{abs}(b) == 1.0$ \n * -  $b.\text{pow}(x)$  is  $\text{NaN}$  for  $b < 0$  and  $x$  is finite and not an integer\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`

`SinceKotlin("1.2")\npublic expect fun Float.pow(n: Int): Float\n\n**\n * Returns the absolute value of this value.\n * Special cases:\n * -  $\text{NaN}.\text{absoluteValue}$  is  $\text{NaN}$ \n * @see abs function\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 * Special case:\n * -  $\text{NaN}.\text{sign}$  is  $\text{NaN}$ \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 * If [sign] is  $\text{NaN}$  the sign of the result is undefined.\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.

```

*^@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 * Ties are
rounded towards positive infinity.\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 * @throws
IllegalArgumentException when this value is `NaN`\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 * Ties are rounded towards positive infinity.\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 * @throws IllegalArgumentException when this value is `NaN`\n
*^@SinceKotlin("1.2")\npublic expect fun Float.roundToLong(): Long\n\n// endregion\n\n// region
===== Integer Math =====\n\n/**\n * Returns
the absolute value of the given value [n].\n * Special cases:\n * - `abs(Int.MIN_VALUE)` is
`Int.MIN_VALUE` due to an overflow\n * @see absoluteValue extension property for [Int]\n
*^@SinceKotlin("1.2")\npublic expect fun abs(n: Int): Int\n\n/**\n * Returns the smaller of two values.\n
*^@SinceKotlin("1.2")\npublic expect fun min(a: Int, b: Int): Int\n\n/**\n * Returns the greater of two values.\n
*^@SinceKotlin("1.2")\npublic expect fun max(a: Int, b: Int): Int\n\n/**\n * Returns the absolute value of this
value.\n * Special cases:\n * - `Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow\n
* @see abs function\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 *^@SinceKotlin("1.2")\npublic expect val Int.sign: Int\n\n/**\n * Returns the absolute value of the
given value [n].\n * Special cases:\n * - `abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an
overflow\n * @see absoluteValue extension property for [Long]\n *^@SinceKotlin("1.2")\npublic expect fun
abs(n: Long): Long\n\n/**\n * Returns the smaller of two values.\n *^@SinceKotlin("1.2")\npublic expect fun
min(a: Long, b: Long): Long\n\n/**\n * Returns the greater of two values.\n *^@SinceKotlin("1.2")\npublic
expect fun max(a: Long, b: Long): Long\n\n/**\n * Returns the absolute value of this value.\n * Special cases:\n
* - `Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\n * @see abs function\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
*^@SinceKotlin("1.2")\npublic expect val Long.sign: Int\n\n//
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F,2B;MAAhB,OAAGB,cAAhB,C;QAAGB,yB;QACZ,OAAO,SAAS,OAAT,C;;MAEX,OAAO,G;K;iFAGX,+B;MA  
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;UAGR,qBAAO,E;;;QsCr5BP,yB;O;KAPJ,C;+FAUA,yB;MAAA,sC;MtCq5BA,0D;MAAA,+C;MmBp1CA,+B;M  
mB+bA,yBAO+B,yB;QnBtc/B,+B;emBsc+B,6B;UAAA,qB;YAAE,yBnB5bS,emB4bC,EnB5bD,CmB4bT,C;W;S;  
OAAF,C;MAP/B,uC;QAOMb,kBAAR,iB;QAAQ,sB;;UtCk5BD,Q;UAAA,OAAQ,SAAR,wBAAQ,CAAR,W;UA  
Ad,OAAc,cAAAd,C;YAAc,uB;YACV,IsCn5ByB,UnB5bS,enB+0CpB,YAAK,KAAL,CmB/0CoB,CmB4bT,CtCm5  
BzB,C;cACI,qBAAO,K;cAAP,uB;;;UAGR,qBAAO,E;;;QsCv5BP,yB;O;KAPJ,C;+FAUA,yB;MAAA,sC;MtCu2B  
A,0D;MAAA,+C;ME72CA,+B;MoCsgBA,yBAO+B,yB;QpC7gB/B,+B;eoC6gB+B,6B;UAAA,qB;YAAE,yBpCng  
BS,eoCmgBC,EpCngBD,CoCmgBT,C;W;S;OAAF,C;MAP/B,uC;QAOMb,kBAAR,iB;QAAQ,sB;;UtCo2BD,Q;U  
AAA,OAAQ,SAAR,wBAAQ,CAAR,W;UAAAd,OAAc,cAAAd,C;YAAc,uB;YACV,IsCr2ByB,UpCngBS,eFw2CpB,  
YAAK,KAAL,CEx2CoB,CoCmgBT,CtCq2BzB,C;cACI,qBAAO,K;cAAP,uB;;;UAGR,qBAAO,E;;;QsCz2BP,yB;  
O;KAPJ,C;+FAUA,yB;MAAA,sC;MtCy2BA,0D;MAAA,+C;MI52CA,iC;MkCmgBA,yBAO+B,yB;QIC1gB/B,iC;e  
kC0gB+B,6B;UAAA,qB;YAAE,yBIChgBY,gBkCggBF,ElChgBE,CkCggBZ,C;W;S;OAAF,C;MAP/B,uC;QAOMb  
,kBAAR,iB;QAAQ,sB;;UtCs2BD,Q;UAAA,OAAQ,SAAR,wBAAQ,CAAR,W;UAAAd,OAAc,cAAAd,C;YAAc,uB;Y  
ACV,IsCv2ByB,UIChgBY,gBJu2CvB,YAAK,KAAL,Civ2CuB,CkCggBZ,CtCu2BzB,C;cACI,qBAAO,K;cAAP,u  
B;;;UAGR,qBAAO,E;;;QsC32BP,yB;O;KAPJ,C;iFAUA,yB;MAAA,4C;MnC5eA,6B;MmC4eA,4B;QAWI,OnC7e  
mC,cmC6epB,KAAR,iBAAQ,CnC7eoB,C;O;KmCkevC,C;iFAcA,yB;MAAA,4C;MnB3eA,+B;MmB2eA,4B;QAW  
I,OnB5esC,emB4evB,KAAR,iBAAQ,CnB5euB,C;O;KmBie1C,C;iFAcA,yB;MAAA,4C;MpCtjBA,+B;MoCsjBA,4  
B;QAWI,OpCvjBsC,eoCujBvB,KAAR,iBAAQ,CpCvjBuB,C;O;KoC4iB1C,C;iFAcA,yB;MAAA,4C;MICvjBA,iC;  
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BAAY,KAAZ,C;K;qDAEX,mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,OAAJ,C;QAAGC,OAAO,E;MACvC,OxCs  
rBO,UwCtrBA,gBxCsrBR,QAAQ,EwCtrBoB,O3EgOF,KmCsdIB,C;K;yDwCprBX,mB;MAES,Q;MAAL,IAAI,eA  
AC,0EAAD,OAAJ,C;QAAGC,OAAO,E;MACvC,OxCy6BO,cwCz6BA,gBxCy6BR,QAAQ,EwCz6BwB,O3E2NN,  
KmC8sBIB,C;K;;IwC/7BnB,6B;MAMI,4C;K;IA2BO,6C;MAAA,8B;MAAS,uB;K;8FACW,Y;MAAQ,OAAA,gBA  
AY,K;K;+CAC3C,Y;MAAkC,OAAA,gBAAY,U;K;sDAC9C,mB;MAAiD,OAAA,gBAAY,gBAAS,OAAT,C;K;m  
DAC7D,iB;MACI,oCAAA,2BAaKB,KAAIB,EAAYB,SAAZB,C;MACb,OAAO,6BAAY,KAAZ,C;K;qDAEX,mB;  
MAES,Q;MAAL,IAAI,eAAC,0EAAD,QAAJ,C;QAAiC,OAAO,E;MACxC,OxCqqBO,UwCrqBA,gBxCqqBR,QA  
AQ,EwCrqBoB,O3DgNA,KmBqdpB,C;K;yDwCnqBX,mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,QAAJ,C;QAAi  
C,OAAO,E;MACxC,OxCw5BO,cwCx5BA,gBxCw5BR,QAAQ,EwCx5BwB,O3D2MJ,KmB6sBpB,C;K;;IwC96Bn  
B,6B;MAMI,4C;K;IA2BO,6C;MAAA,8B;MAAS,uB;K;8FACW,Y;MAAQ,OAAA,gBAAY,K;K;+CAC3C,Y;MA  
AkC,OAAA,gBAAY,U;K;sDAC9C,mB;MAAiD,OAAA,gBAAY,gBAAS,OAAT,C;K;mDAC7D,iB;MACI,oCAAA  
,2BAaKB,KAAIB,EAAYB,SAAZB,C;MACb,OAAO,6BAAY,KAAZ,C;K;qDAEX,mB;MAES,Q;MAAL,IAAI,eA  
AC,0EAAD,QAAJ,C;QAAiC,OAAO,E;MACxC,OxCopBO,UwCppBA,gBxCopBR,QAAQ,EwCppBoB,O5EkIA,K

oCkhBpB,C;K;yDwClpBX,mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,QAAJ,C;QAAiC,OAAO,E;MACxX,OxCu4  
BO,cwCv4BA,gBxCu4BR,QAAQ,EwCv4BwB,O5E6HJ,KoC0wBpB,C;K;;IwC75BnB,8B;MAMI,4C;K;IA2BO,6C  
;MAAA,8B;MAAS,uB;K;8FACW,Y;MAAQ,OAAA,gBAAY,K;K;+CAC3C,Y;MAAkC,OAAA,gBAAY,U;K;sDA  
C9C,mB;MAAkD,OAAA,gBAAY,gBAAS,OAAT,C;K;mDAC9D,iB;MACI,oCAAA,2BAAkB,KAAIB,EAAyB,SA  
AzB,C;MACb,OAAO,6BAAY,KAAZ,C;K;qDAEX,mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,SAAJ,C;QAAkC,  
OAAO,E;MACzC,OxCmoBO,UwCnoBA,gBxCmoBR,QAAQ,EwCnoBoB,O1EkHE,KkCihBtB,C;K;yDwCjoBX,  
mB;MAES,Q;MAAL,IAAI,eAAC,0EAAD,SAAJ,C;QAAkC,OAAO,E;MACzC,OxCs3BO,cwCt3BA,gBxCs3BR,Q  
AAQ,EwCt3BwB,O1E6GF,KkCywBtB,C;K;;IwC54BnB,8B;MAMI,4C;K;ICtIJ,qC;MAIL,SAAS,SID+BiC,I;MkD9  
B1C,OAAa,CAAN,gBAAc,EAAAd,KACU,EAAN,gBAAc,EADIB,KAEL,OAAM,GAFV,KAGI,KAAK,IAAL,KAC  
C,OAAM,IAAN,KACS,IAAN,gBAAc,IADjB,KAEG,OAAM,IAFT,IAGG,OAAM,IAHT,IAIG,OAAM,IAJT,IAK  
G,OAAM,IALT,IAMG,OAAM,KAPV,CAHJ,C;K;;mCCTP,gB;;K;;ICAJ,wB;K;;IAIA,wB;K;;IAIA,wB;K;;IAKiC  
,uB;MAAC,oB;QAAA,OAA0B,E;MAA1B,gB;K;;IAELC,kB;K;;IAqCqC,sB;MAAC,gB;K;;IAGCN,4B;MAAC,sB;  
K;;IAEjC,uB;K;;IA8DmC,4B;MAAC,kB;K;;IAEpC,oB;K;;IAmCA,+B;K;;ICvLA,oB;K;;IAIA,wB;K;;oF7DLA,qB;  
MAKqE,uCoCHtB,E;K;iGpCK/C,yB;MAAA,kD;MAAA,4B;QAQsE,mBAAY,SAAZ,C;O;KARtE,C;IAUA,iC;MA  
GI,OAAsB,UAAy,QAAvB,KAAmC,SAA9C,GACe,UAAy,UAD3B,GAGI,gBAAGB,UAAhB,C;K;IAGR,qC;MA  
EI,YoC1B2C,E;MpC2B3C,eAAe,UAAW,W;MAC1B,OAAO,QAAS,UAAhB,C;QACU,KAAy,MAAK,QAAS,OA  
Ad,C;MACtB,OAAO,K;K;IAGX,8C;MAQc,Q;MANV,IAAI,KAAM,OAAN,GAAa,UAAW,KAA5B,C;QACI,OA  
AO,gBAAGB,UAAhB,C;;MAEX,eAAe,UAAW,W;MAC1B,YAAy,C;MACZ,OAAO,QAAS,UAAhB,C;QACI,MA  
AM,YAAN,EAAM,oBAAN,UAAiB,QAAS,O;;MAE9B,IAAI,QAAQ,KAAM,OAAlB,C;QACI,MAAM,KAAN,IA  
Ae,I;;MAEnB,OAAO,K;K;IAIX,yB;MAG6C,sBAAY,OAaz,E;K;wGAE7C,yB;MAAA,+D;MAAA,gC;QAI0B,gB  
AAf,gB;QAAqB,aJW5B,W;QIXA,OJYO,SIZoC,Q;O;KAJ/C,C;yGAOA,yB;MAAA,4E;MAAA,gE;MAAA,0C;QA  
II,qBAAqB,QAArB,C;QAC8B,gBAAvB,eAAa,QAAb,C;QAA6B,aJGpC,W;QIHA,OJIO,SIJ4C,Q;O;KALvD,C;IA  
SA,wB;MAG2C,oBAAU,OAAV,E;K;sGAE3C,yB;MAAA,uE;MAAA,gC;QAI8B,gBAAnB,oB;QAAyB,aJvHc,W;  
QIUA,OJTO,SISwC,Q;O;KAJnD,C;wGAOA,yB;MAAA,wE;MAAA,0C;QAI5C,gBAA3B,mBAAiB,QAAjB,C;QA  
AiC,aJjBxC,W;QIiBA,OJhBO,SIgBgD,Q;O;KAJ3D,C;IAQA,qB;MAIuD,oBAAU,IAAV,E;K;sGAEvD,yB;MAAA  
,wE;MAAA,gC;QAIiC,gBAAtB,oB;QAA4B,aJ/BnC,W;QI+BA,OJ9BO,SI8B2C,Q;O;KAJtD,C;uGAOA,yB;MAA  
A,uE;MAAA,0C;QAIyC,gBAA9B,mBAAoB,QAApB,C;QAAoC,aJtC3C,W;QIsCA,OJrCO,SIqCmD,Q;O;KAJ9D,  
C;IAQA,mC;MAOqB,Q;MAAA,kC;MAAjB,iBAAc,CAAd,yB;QACI,sBAAK,KAAL,EAAc,KAAd,C;;K;IAIR,+B;  
MAMuD,sBAAQ,4BAAR,C;K;IAEvD,6B;MAIwE,kBAAhB,0B;MAAwB,uB;MAAxB,OJJE7C,W;K;IImEX,4B;M  
AQI,gBAAGB,SAAhB,EAA5B,cAAtB,C;K;IAGJ,2C;MAQI,gBAAGB,SAAhB,EAA5B,UAAtB,C;K;IAGJ,2C;MA  
CI,IAAI,IAAK,KAAL,IAAa,CAAjB,C;QAAoB,M;MAEpB,YAAy,YAAy,IAAZ,C;MACZ,gBAAc,KAAd,EAAq  
B,UAArB,C;MAEA,aAAU,CAAV,MAAkB,KAAM,OAAXB,M;QACI,iBAAK,CAAL,EAAU,MAAM,CAAN,CA  
AV,C;;K;IAIR,uC;MACI,OAAO,gBAAkB,IAAlB,O;K;IAGX,iF;MAII,oCAAA,2BAAkB,UAAIB,EAA8B,QAA9B  
,EAAwC,MAAO,OAA/C,C;MACb,gBAAGB,WAAW,UAAx,I;MACHB,oCAAA,2BAAkB,iBAAlB,EAAqC,oBAA  
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AO,MAAP,CAA/D,C;QACI,eAAsB,MAAY,UAAS,UAAT,EAAqB,QAArB,C;QACtB,WAAy,KAAL,QAAJ,EAA  
c,iBAAd,C;;QAExB,IAAI,WAAW,WAAx,IAA0B,qBAAqB,UAAAnD,C;UACI,iBAAc,CAAd,UAA5B,SAAtB,U;Y  
ACI,YAAy,oBAAoB,KAApB,IAAZ,IAAyC,OAAO,aAAa,KAAb,IAAP,C;;UAG7C,mBAAc,YAAy,CAAZ,IAA  
d,aAAmC,CAAnC,Y;YACI,YAAy,oBAAoB,OAAPB,IAAZ,IAAyC,OAAO,aAAa,OAAb,IAAP,C;;K;8GAMzD,  
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OAAO,K;K;IAGX,mC;MAEL,IAAI,QAAQ,CAAZ,C;QACI,oB;;MAEJ,OAAO,K;K;IAIX,mC;MAIqD,mB;K;IAEr  
D,wC;MPzNI,IAAI,EOgOI,YAAy,CPhOhB,CAAJ,C;QACI,cO+NqB,gC;QP9NrB,MAAM,gCAAyB,OAAQ,WA  
AjC,C;;K;IOiOd,8C;MAAoE,Y;K;I8D1PV,qC;MAAiC,6B;K;uDAlvF,mB;MACI,qB;MACA,eAAe,e;MACf,OAA  
O,QAAS,UAAhB,C;QACI,IAAI,OAAA,QAAS,OAAT,EAAMB,OAAnB,CAAJ,C;UACI,QAAS,S;UACT,OAAO,I  
;;MAGf,OAAO,K;K;yDAGX,oB;MAGoB,Q;MAFhB,qB;MACA,eAAe,K;MACC,0B;MAAhB,OAAGB,cAAhB,C  
;QAAgB,yB;QACZ,IAAI,eAAI,OAAL,CAAJ,C;UAAkB,WAAW,I;;MAEjC,OAAO,Q;K;IAKuC,sE;MAAA,qB;Q  
AAE,OAAM,gBAAN,mB;O;K;4DAFpD,oB;MAEY,Q;MADR,qB;MACA,OAAoC,YAA5B,iEAA4B,EAAU,oDA

AV,C;K;IAKU,sE;MAAA,qB;QAAE,QAAO,gBAAP,mB;O;K;4DAFpD,oB;MAEY,Q;MADR,qB;MACA,OAAoC  
,YAA5B,iEAA4B,EAAU,oDAAV,C;K;gDAGxC,Y;MACI,qB;MACA,eAAe,IAAK,W;MACpB,OAAO,QAAS,UA  
AhB,C;QACI,QAAS,O;QACT,QAAS,S;;K;iDAIjB,Y;MAE8B,OAAA,IAAK,U;K;yDAGnC,Y;K;;IC3CgD,+B;MA  
AiC,oC;MACjF,gBAA8B,C;K;8CAM9B,mB;MAMI,qB;MACA,iBAAL,SAAJ,EAAU,OAAV,C;MACA,OAAO,I;  
K;mDAGX,2B;MAMc,UACF,M;MANR,oCAAa,4BAAmB,KAAmB,EAA0B,SAA1B,C;MAEb,qB;MACA,aAAa,  
K;MACb,cAAc,K;MACJ,0B;MAAV,OAAU,cAAV,C;QAAU,mB;QACN,kBAAL,eAAJ,EAAI,uBAAJ,WAAc,CA  
Ad,C;QACA,UAAU,I;;MAEd,OAAO,O;K;0CAGX,Y;MACI,qB;MACA,yBAAY,CAAZ,EAAe,SAAf,C;K;IAKiB,  
gE;MAAA,qB;QAAE,OAAM,gBAAN,mB;O;K;sDAFvB,oB;MACI,qB;MACA,OAAO,kBAAU,8CAAV,C;K;IAK  
U,gE;MAAA,qB;QAAE,QAAO,gBAAP,mB;O;K;sDAFvB,oB;MACI,qB;MACA,OAAO,kBAAU,8CAAV,C;K;6C  
AIX,Y;MAAqD,iD;K;mDAErD,mB;MAAoD,0BAAQ,OAAR,KAAoB,C;K;kDAExE,mB;MACqB,Q;MAAA,6B;  
MAAjB,iBAAc,CAAd,yB;QACI,IAAI,wBAAL,KAAJ,GAAC,OAAd,CAAJ,C;UACI,OAAO,K;;MAGf,OAAO,E;K  
;sDAGX,mB;MACI,iBAAc,sBAAd,WAA+B,CAA/B,U;QACI,IAAI,wBAAL,KAAJ,GAAC,OAAd,CAAJ,C;UACI,  
OAAO,K;;MAGf,OAAO,E;K;iDAGX,Y;MAA6D,iCAAa,CAAb,C;K;yDAC7D,iB;MAAuE,sDAAiB,KAAjB,C;K  
;oDAGvE,8B;MAA4E,uCAAQ,IAAR,EAAc,SAAd,EAAyB,OAazB,C;K;wDAE5E,8B;MAII,eAAe,0BAAa,SAAb  
,C;MACf,YAAO,UAAU,SAAV,I;MnEuDX,iBAAc,CAAd,UAAsB,KAAtB,U;QmEtDiB,e;QACA,iB;;K;2CAIjB,i  
B;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;MAC3B,IAAI,2BAAJ,C;QAAuB,OAAO,K;MAE9B,OAAO,oC  
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MAAA,oB;MACI,eACsB,C;MACtB,cAIqB,E;K;yDAErB,Y;MAAkC,sBAAQ,gB;K;sDAE1C,Y;MAEW,Q;MADP  
,IAAI,CAAC,cAAL,C;QAAgB,MAAM,6B;MACtB,eAAO,mBAAP,EAAO,2BAAP,O;MACA,OAAO,wBAAL,WA  
AJ,C;K;wDAGX,Y;MtE5CJ,IAAI,EsE6CU,gBAAQ,EtE7CIB,CAAJ,C;QACI,csE4CwB,sE;QtE3CxB,MAAM,6BA  
AsB,OAAQ,WAA9B,C;;MsE6CF,6BAAS,WAAT,C;MACA,eAAQ,W;MACR,cAAO,E;K;;IAOqB,6D;MAHpC,o  
B;MAGmD,wD;MAG3C,oCAAa,4BAAmB,KAAmB,EAA0B,WAAyB,KAAmD,C;MACb,eAAa,K;K;IEAGjB,Y;M  
AAsC,sBAAQ,C;K;+DAE9C,Y;MAAgC,mB;K;8DAEHc,Y;MACI,IAAI,CAAC,kBAAL,C;QAAoB,MAAM,6B;M  
AE1B,eAAO,mCAAP,EAAO,YAAP,C;MACA,OAAO,wBAAL,WAAJ,C;K;mEAGX,Y;MAAoC,sBAAQ,CAAR,I;  
K;+DAEpC,mB;MACI,wBAAL,YAAJ,EAAW,OAAX,C;MACA,mC;MACA,cAAO,E;K;+DAGX,mB;MtEIFJ,IAA  
I,EsEmFU,gBAAQ,EtEnFIB,CAAJ,C;QACI,csEkFwB,4E;QtEjFxB,MAAM,6BAAsB,OAAQ,WAA9B,C;;MsEkFF  
,wBAAL,WAAJ,EAAU,OAAV,C;K;;IAIgb,+D;MAAuF,8B;MAAtF,kB;MAAoC,4B;MAC/D,eAAyB,C;MAGrB,o  
CAAa,2BAAkB,gBAAL,EAA6B,OAA7B,EAAc,WAAK,KAA3C,C;MACb,eAAa,UAAU,gBAAV,I;K;wDAGjB  
,0B;MACI,oCAAa,4BAAmB,KAAmB,EAA0B,YAA1B,C;MAEb,WAAK,aAAI,mBAAY,KAAZ,IAAJ,EAAuB,OA  
AvB,C;MACL,mC;K;wDAGJ,iB;MACI,oCAAa,2BAAkB,KAAIB,EAAyB,YAAzB,C;MAEb,OAAO,wBAAK,mB  
AAY,KAAZ,IAAL,C;K;6DAGX,iB;MACI,oCAAa,2BAAkB,KAAIB,EAAyB,YAAzB,C;MAEb,aAAa,WAAK,kB  
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AyB,YAAzB,C;MAEb,OAAO,WAAK,aAAI,mBAAY,KAAZ,IAAJ,EAAuB,OAavB,C;K;mGAGO,Y;MAAQ,mB  
;K;2DAE/B,Y;MAA+C,WAAK,iB;K;;ICxMN,8B;MAAiC,sB;MAwCnF,uBAAoC,I;MA+CpC,yBAA6C,I;K;IAIF  
R,oD;MAAC,wB;MAGIC,gBAAqB,K;K;iFAHa,Y;MAAA,yB;K;uGAKZ,Y;MAAQ,oB;K;8DAE9B,oB;MAKI,eA  
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EAAc,IAAd,C;K;sDACIC,iB;MAA4C,+DAAY,IAAZ,EAakB,KAAIB,C;K;;IAIB5C,8E;MAAA,wE;MAAsC,2CA  
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Ac,OAAd,C;K;IEAEnD,mB;MAAiD,gCAAY,OAAZ,C;K;;yCAIrD,Y;MACI,YAAQ,Q;K;IAOQ,+F;MAAA,sD;M  
AAS,6B;K;uFACb,mB;MAAwC,MAAM,qCAA8B,8BAA9B,C;K;mFAC9C,Y;MACI,4BAAwB,Q;K;4FAG5B,mB  
;MAAsD,sDAAY,OAAZ,C;K;IAI3C,oH;MAAA,kD;K;4GACH,Y;MAAkC,OAAA,0BAAc,U;K;yGACHD,Y;MAA  
yB,OAAA,0BAAc,OAAO,I;K;2GAC9C,Y;MAAwB,0BAAc,S;K;;sFAL9C,Y;MACI,oBAAoB,oCAAQ,W;MAC5  
B,6G;K;0FAOJ,mB;MACI,qB;MACA,IAAI,+CAAY,OAAZ,CAAJ,C;QACI,4BAAwB,cAAO,OAAP,C;QACxB,O  
AAO,I;;MAEX,OAAO,K;K;oIAGY,Y;MAAQ,OAAA,4BAAwB,K;K;4FAEvD,Y;MAAsC,4BAAwB,iB;K;;0FA9B  
1E,Y;MACI,IAAI,4BAAJ,C;QACI,6F;;MA+BJ,OAAO,mC;K;kDAKf,gB;MAEyB,Q;MADrB,qB;MACqB,OAAA,  
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MxD,iBAAL,GAJ,EAAS,KAAAT,C;;K;IAQc,iG;MAAA,sD;MAAS,oC;K;yFACf,mB;MAAwC,MAAM,qCAA8B,  
gCAA9B,C;K;qFAC9C,Y;MAAuB,4BAAwB,Q;K;8FAE/C,mB;MAAsD,wDAAc,OAAd,C;K;IAI3C,sH;MAAA,k

D;K;8GACH,Y;MAAkC,OAAA,0BAAc,U;K;2GAChD,Y;MAAyB,OAAA,0BAAc,OAAO,M;K;6GAC9C,Y;MAA  
wB,0BAAc,S;K;;wFAL9C,Y;MACl,oBAAoB,oCAAQ,W;MAC5B,+G;K;sIAOmB,Y;MAAQ,OAAA,4BAAwB,K;  
K;8FAEvD,Y;MAAsC,4BAAwB,iB;K;;4FAnB1E,Y;MACl,IAAI,8BAAJ,C;QACl,iG;;MAoBJ,OAAO,qC;K;gDA  
Gf,e;MACl,qB;MACA,WAAW,YAAQ,W;MACnB,OAAO,IAAK,UAAZ,C;QACl,YAAy,IAAK,O;QACjB,QAA  
Q,KAAM,I;QACd,IAAI,YAAO,CAAP,CAAJ,C;UACl,YAAy,KAAM,M;UACIB,IAAK,S;UACL,OAAO,K;;MA  
Gf,OAAO,I;K;kDAIX,Y;K;;IC3I+C,8B;MAAiC,oC;K;0CAEhF,iB;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;  
MAC3B,IAAI,0BAAJ,C;QAAsB,OAAO,K;MAC7B,OAAO,mCAAY,mBAAU,IAAV,EAAgB,KAAbB,C;K;4CAG  
vB,Y;MAG+B,OAAA,mCAAY,2BAAbB,IAAlB,C;K;;ICbT,0B;MAAuD,8B;MAAIC,4B;MACvD,4BAAbB,C;K;g  
CAkBiC,Y;MAEl,qB;MACA,4BAAa,I;MACb,OAAO,I;K;qCAGX,Y;K;iDAGA,uB;K;iFAG8B,Y;MAAQ,OAAA,  
oBAAM,O;K;sCAC5C,iB;MACyC,Q;MAAA,oCAAM,0BAAW,KAAX,CAAN,4D;K;sCACzC,0B;MAIW,IAAa,I;  
MAHpB,qB;MACA,0BAAW,KAAX,C;MAEoB,gBAAb,qBAAM,KAAN,C;MAAqB,qC;MAA5B,OAAO,CAAa,O  
tE8BjB,SsE9BI,2D;K;oCAGX,mB;MACl,qB;MACM,oBAAy,MAAK,OAAI,C;MACIB,qC;MACA,OAAO,I;K;s  
CAGX,0B;MACl,qB;MACM,oBAAy,QAAO,mCAAoB,KAAPB,CAAP,EAAmC,CAAnC,EAAcC,OAAI,C;MA  
ClB,qC;K;yCAGJ,oB;MACl,qB;MACA,IAAI,QAAS,UAAb,C;QAAwB,OAAO,K;MAE/B,uBAAA,oBxEioDoB,Q  
MjrD0C,YkEgDrD,QIEhDqD,CNirD1C,C;MwEhoDpB,qC;MACA,OAAO,I;K;yCAGX,2B;MACl,qB;MACA,mC  
AAoB,KAAPB,C;MAEA,IAAI,UAAS,SAAb,C;QAAMB,OAAO,oBAAO,QAAP,C;MAC1B,IAAI,QAAS,UAAb,C  
;QAAwB,OAAO,K;MAE3B,IADE,KACf,e;QAAQ,OAAO,oBAAO,QAAP,C;WACf,IAFE,KAef,O;QAAK,uBIE  
7DqD,YkE6D7C,QIE7D6C,CNirD1C,QwEpnD6B,oBxEonD7B,C;;QwEnnDR,uBAAoC,cAA5B,oBAA4B,EAAV,  
CAAU,EAAp,KAAO,CAAY,QIE9DE,YkE8DK,QIE9DL,CkE8DF,EAA4C,cAAN,oBAAM,EAAy,KAAZ,EAAm  
B,SAAnB,CAA5C,C;;MAG5D,qC;MACA,OAAO,I;K;2CAGX,iB;MACl,qB;MACA,0BAAW,KAAX,C;MACA,q  
C;MACA,OAAW,UAAS,sBAAb,GACG,oBAAy,MADf,GAGG,oBAAy,QAAO,KAAP,EAAc,CAAd,CAAIb,CA  
AmC,CAAnC,C;K;uCAGR,mB;MAEkB,Q;MADd,qB;MACc,2B;MAAd,mD;QACl,IAAI,4BAAM,KAAN,GAAG  
B,OAAhB,CAAJ,C;UACU,oBAAy,QAAO,KAAP,EAAc,CAAd,C;UACIB,qC;UACA,OAAO,I;;MAGf,OAAO,K;  
K;8CAGX,8B;MACl,qB;MACA,qC;MACM,oBAAy,QAAO,SAAP,EAAkB,UAAU,SAAV,IAAlB,C;K;gCAGtB,  
Y;MACl,qB;MACA,uB9BhHuC,E;M8BiHvC,qC;K;wCAIJ,mB;MAA+C,OAAM,QAAN,oBAAM,EAAQ,OAAR,  
C;K;4CAErD,mB;MAAMd,OAAM,YAAN,oBAAM,EAAy,OAAZ,C;K;mCAEzD,Y;MAA0B,uBAAc,oBAAd,C;  
K;0CAE1B,iB;MAGe,UAGL,MAHK,EAMO,M;MAPIB,IAAI,KAAM,OAAN,GAAa,SAAjB,C;QACl,OAAO,2D;;  
MAGc,gBAAxB,eAAK,SAAL,IAAK,gBAAL,yB;MxEuwBL,UAAU,SAAV,EwEvwBsC,KxEuwBtC,EAD+F,CA  
C/F,EADoH,CACpH,EADuI,gBACvI,C;MwErwBI,IAAI,KAAM,OAAN,GAAa,SAAjB,C;QACl,MAAM,SAAN,I  
AAc,6E;;MAGIB,OAAO,K;K;kCAGX,Y;MACl,OAAO,EAAc,MAAM,MAAK,oBAAL,C;K;yCAIIB,Y;MACl,IA  
AI,yBAAJ,C;QAAgB,MAAM,oC;K;+CAG1B,iB;MACl,oCAAa,kCAAYB,SAAZB,C;MADoB,Y;K;wDAIrC,iB;M  
ACl,oCAAa,mCAA0B,SAAI1B,C;MAD6B,Y;K;;IAIJ9C,+B;MAAA,mD;MAG8B,sB9BRa,E8BQb,C;MAH9B,Y;K  
;IAKA,kD;MAAA,mD;MAIkD,sB9BdP,E8BcO,C;MAJID,Y;K;IAMA,2C;MAAA,mD;MAGqD,sBIENa,YkEMR,  
QIENQ,CkEMb,C;MAHrD,Y;K;ICrBJ,0C;MACl,IAAI,6BAAJ,C;QACU,KAAY,MAAK,UAAI,C;;QAEIB,UAAU  
,KAAV,EAAwC,CAAxC,EAAiD,cAAN,KAAM,CAAJD,EAA4D,eAAW,UAAx,CAA5D,C;;K;IAMiB,kD;MAAA  
,uB;QAAgB,OAAA,kBAAW,SAAQ,CAAR,EAAW,CAAX,C;O;K;IAFpD,4C;MACl,IAAI,6BAAJ,C;QACl,iBAA  
iB,gC;QACX,KAAY,MAAK,UAAI,C;;QAEIB,UAAU,KAAV,EAAwC,CAAxC,EAAiD,cAAN,KAAM,CAAJD,E  
AA4D,UAA5D,C;;K;IAIR,gE;MACl,IAAI,aAAY,UAAU,CAAV,IAAZ,CAAJ,C;QACl,UAAU,KAAV,EAAwC,S  
AAxC,EAAmD,UAAU,CAAV,IAAnD,EAAgE,UAAhE,C;;K;IAMiB,gC;MAAgB,OAAE,iBAAF,CAAE,EAAU,C  
AAV,C;K;IAF3C,0B;MACl,IAAI,6BAAJ,C;QACl,iBAAiB,gB;QACX,KAAY,MAAK,UAAI,C;;QAEIB,UAAU,  
KAAV,EAAwC,CAAxC,EAAiD,cAAN,KAAM,CAAJD,EAA4D,cAA5D,C;;K;;IAaa,kD;MAAoB,QAAC,IAAM,C  
AAP,KAAa,IAAM,CAAnB,K;K;IARzC,uC;MACl,sC;QAACiC,OAAjC,yB;;MACA,4BAA4B,K;MAE5B,YAAy,E;  
MAGZ,iBAAc,CAAd,UAAAsB,GAAtB,U;QAACiC,KAAY,MAAK,KAAL,C;MAC7C,iBAAiB,kC;MACX,KAAY,M  
AAK,UAAI,C;MACIB,mBAAc,CAAd,YAAAsB,KAAM,OAA5B,Y;QACl,QAAQ,MAAM,UAAQ,CAAR,IAAN,C  
;QACR,QAAQ,MAAM,OAAN,C;QACR,IAAI,CAAC,IAAM,CAAP,OAAc,IAAM,CAAPB,KAA0B,KAAK,CAA  
nC,C;UAAcC,OAAO,K;;MAEjD,4BAA4B,I;MAC5B,OAAO,I;K;IAIX,2D;MACl,aAAa,gBAAMB,KAAM,OAAz  
B,O;MACb,aAAa,YAAU,KAAV,EAAiB,MAAJB,EAAyB,KAAzB,EAAgC,YAAhC,EAA8C,UAA9C,C;MACb,IA  
AI,WAAW,KAAf,C;QACl,aAAU,KAAV,OAAiB,YAAjB,M;UAA+B,MAAM,CAAN,IAAW,OAAO,CAAP,C;;K;

IAIID,4D;MAEI,IAAI,UAAS,GAAb,C;QACI,OAAO,K;;MAGX,aAAa,CAAC,QAAQ,GAAR,IAAD,IAAgB,CAA  
hB,I;MACb,WAAW,YAAU,KAAV,EAAiB,MAAjB,EAAyB,KAazB,EAAgC,MAAhC,EAAwC,UAAxC,C;MAC  
X,YAAy,YAAU,KAAV,EAAiB,MAAjB,EAAyB,SAAS,CAAT,IAAzB,EAAqC,GAARc,EAA0C,UAA1C,C;MAE  
Z,aAAiB,SAAS,MAAb,GAAqB,KAArB,GAAgC,M;MAG7C,gBAAgB,K;MAChB,iBAAiB,SAAS,CAAT,I;MACj  
B,aAAU,KAAV,OAAiB,GAAjB,M;QAEQ,iBAAa,MAAb,IAAuB,cAAc,GAARc,C;UACI,gBAAgB,KAAK,SAAL  
,C;UACHb,iBAAiB,MAAM,UAAN,C;UAEjB,IAAI,UAAW,SAAQ,SAAR,EAAMb,UAAAnB,CAAX,IAA6C,CAAj  
D,C;YACI,OAAO,CAAP,IAAY,S;YACZ,6B;;YAEA,OAAO,CAAP,IAAY,U;YACZ,+B;;eAGR,iBAAa,MAAb,C;  
UACI,OAAO,CAAP,IAAY,KAAK,SAAL,C;UACZ,6B;;UAGA,OAAO,CAAP,IAAY,MAAM,UAAN,C;UACZ,+  
B;;;MAMZ,OAAO,M;K;ICrGX,4C;MAMoB,UACM,M;MAHtB,IAAI,iBAAJ,C;QAAkB,OAAO,C;MACzB,aAAa,  
C;MACb,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAEQ,oB;UAAmB,U;;UACnB,I1BFiC,MAAa,Y0BEn  
C,O1BFmC,C0BE9C,C;YAAwD,iCAAhC,OAAgC,C;iBAExD,uC;YAAmC,2BAAR,OAAQ,C;eACnC,wC;YAAm  
C,2BAAR,OAAQ,C;eACnC,sC;YAAmC,2BAAR,OAAQ,C;eACnC,uC;YAAmC,2BAAR,OAAQ,C;;YAEA,kBAA  
R,OAAQ,C;;QATvC,wB;QAYA,SAAS,MAAK,MAAL,QAAc,WAAAd,I;;MAEb,OAAO,M;K;;ICTP,uC;MAAA,2  
C;K;2DACI,0B;MAA2D,sBAAU,MAAV,C;K;gEAE3D,iB;MAA6C,Q;MAAA,wEAAqB,C;K;;IAHtE,mD;MAAA  
,kD;QAAA,iC;;MAAA,2C;K;;MC0BA,iC;MAKA,8B;MA6CA,0BAAMe,I;IAzEnE,kC;MAAA,oB;MAA+B,8C;  
K;2CAE3B,mB;MAAYD,MAAM,qCAA8B,iCAA9B,C;K;uCAC/D,Y;MACI,WAAa,Q;K;uDAGjB,mB;MAAgE,O  
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AT,CAAJ,C;QACI,WAAa,cAAO,OAAQ,IAAf,C;QACb,OAAO,I;;MAEX,OAAO,K;K;wFAGY,Y;MAAQ,OAAA,  
WAAa,K;K;;8BA6ChD,Y;MACI,0BAAY,Q;K;0CAIhB,e;MAAMd,OAAA,0BAAY,gBAAS,GAAT,C;K;4CAE/D,  
iB;MAAMe,gBAAZ,0B;MAAY,c;;QvE+mDnD,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,K;UAAP,  
e;;QACrB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IuE/mDmD,uBAAS,gBvE+mD9C,OuE/mDwD,MA  
AV,QvE+mD5D,C;YAAwB,aAAO,I;YAAP,e;;QAC9C,aAAO,K;;MuEhnDgD,iB;K;kFAInD,Y;MACI,IAAI,+BA  
AJ,C;QACI,0BAAW,qB;;MAEf,OAAO,sC;K;uCAGf,Y;MAAgF,iC;K;kCAEHf,e;MAA+C,OAAA,0BAAY,WAAI  
,GAAJ,C;K;oCAE3D,sB;MAAgD,OAAA,0BAAY,aAAI,GAAJ,EAAS,KAAT,C;K;qCAE5D,e;MAAYC,OAAA,0B  
AAY,cAAO,GAAP,C;K;+EAEvB,Y;MAAQ,OAAA,0BAAY,K;K;;IA5DID,0C;MAAA,iD;MAAuD,8B;MAvC3D,  
mB;MAwCQ,8BAAMb,W;MACnB,2BAAgB,WAAy,S;MAFhC,Y;K;IAKA,+B;MAAA,iD;MAGuB,aAAK,kEAA  
L,Q;MAHvB,Y;K;IAKA,4D;MAAA,iD;MAQ8D,qB;M7EpC9D,IAAI,E6EsCQ,mBAAMb,C7EtC3B,CAAJ,C;QA  
CI,c6EqCgC,+C;Q7EpChC,MAAM,gCAAYB,OAAQ,WAAjC,C;;MAFV,IAAI,E6EuCQ,cAAc,C7EvCtB,CAAJ,C;  
QACI,gB6EsC2B,yC;Q7ErC3B,MAAM,gCAAYB,SAAQ,WAAjC,C;;M6E0BV,Y;K;IAcA,gD;MAAA,iD;MAA2C  
,eAAK,eAAL,EAAsB,GAATB,Q;MAA3C,Y;K;IAGA,yC;MAAA,iD;MAG8C,qB;MAC1C,KAAK,gBAAO,QAAP,  
C;MAJT,Y;K;IAqCJ,4B;MAK8E,gBAAnE,aAAmB,gEAAAnB,C;MAA2E,wB;MAAIF,O1EvCO,S;K;;M2EjEP,uB;;  
kCAyCA,mB;MACI,UAAU,gBAAI,aAAI,OAAJ,EAAa,IAAb,C;MACd,OAAO,W;K;8BAGX,Y;MACI,gBAAI,Q;  
K;uCAOR,mB;MAA6D,OAAA,gBAAI,mBAAY,OAAZ,C;K;gCAEjE,Y;MAAYC,OAAA,gBAAI,U;K;ICA7C,Y;  
MAAqD,OAAA,gBAAI,KAAK,W;K;qCAE9D,mB;MAAkD,OAAA,gBAAI,cAAO,OAAP,CAAJ,Q;K;+EAEpB,Y  
;MAAQ,OAAA,gBAAI,K;K;;IA5D1C,6B;MAAA,iD;MAGoB,8B;MAZxB,mB;MAAq,oBAAM,gB;MAJV,Y;K;IA  
OA,yC;MAAA,iD;MAG2C,8B;MAnB/C,mB;MAoBQ,oBAAM,eAAGB,QAAS,KAazB,C;MACN,qBAAO,QAAP,  
C;MALJ,Y;K;IAQA,4D;MAAA,iD;MAQ2D,8B;MAhC/D,mB;MAiCQ,oBAAM,eAAGB,eAAhB,EAAiC,UAAjC,  
C;MATV,Y;K;IAYA,gD;MAAA,iD;MAA2C,eAAK,eAAL,EAAsB,GAATB,Q;MAA3C,Y;K;IAEA,oC;MAAA,iD;  
MAM0C,8B;MA5C9C,mB;MA6CQ,oBAAW,G;MAPF,Y;K;IAmCJ,+B;MAKuC,gBAA5B,eAAQ,eAAR,C;MAAo  
C,6B;MAA3C,O3ENO,S;K;I4EzD6B,uC;MAAC,kC;MAErC,oBAAkC,kB;MACIC,sBAAyB,C;K;2EAHY,Y;MAA  
A,8B;K;2FAGrC,Y;MAAA,0B;K,OAAA,gB;MAAA,0B;K;gDAGA,sB;MACI,eAAe,aAAS,qBAAy,GAAZ,C;MA  
CxB,mBAAMb,6BAAsB,QAATB,C;MACnB,IAAI,oBAAJ,C;QAEI,kBAAW,QAAX,IAAuB,mCAAY,GAAZ,EA  
AiB,KAAjB,C;;QAEvB,IAAI,6BAAJ,C;UAEI,YAA+B,Y;UAC/B,IAAI,aAAS,gBAAO,KAAM,IAAb,EAAkB,GA  
AlB,CAAb,C;YACI,OAAO,KAAM,gBAAS,KAAT,C;;YAEb,kBAAW,QAAX,IAAuB,CAAQ,KAAR,EAAe,mCA  
AY,GAAZ,EAAiB,KAAjB,CAAf,C;YACvB,6B;YACA,OAAO,I;;UAIX,YAAuC,Y;UACvC,cAAkB,wBAAN,KA  
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AAY,GAAZ,EAAiB,KAAjB,CAAL,C;;MAG1B,6B;MAEA,OAAO,I;K;iDAGX,e;MAEuB,Q;MADnB,eAAe,aAA  
S,qBAAy,GAAZ,C;MACL,oCAAsB,QAATB,C;MAAA,iB;QAAMC,OAAO,I;;MAA7D,mBAAMb,I;MACnB,IAA

I,6BAAJ,C;QACI,YAAgC,Y;QAChC,IAAI,aAAS,gBAAO,KAAM,IAAb,EAakB,GAAIB,CAAb,C;U5BzDR,O4B  
0D6B,iB5B1DvB,C4B0DmC,Q5B1DnC,C;U4B2DM,6B;UACA,OAAO,KAAM,M;;UAEB,OAAO,I;;QAGX,YAA  
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BxE/B,C4BwE2C,Q5BxE3C,C;;c4B2EoB,KAAY,QAAO,KAAP,EAAC,CAAd,C;;YAEtB,6B;YAEA,OAAO,OAA  
M,M;;;MAIzB,OAAO,I;K;0CAGX,Y;MACI,oBAAa,kB;MACb,YAAO,C;K;mDAGX,e;MAAYc,uBAAS,GAAT,  
S;K;8CAEzC,e;MAA+B,Q;MAAA,+BAAS,GAAT,8B;K;+CAE/B,e;MACuB,Q;MAAA,oCAAsB,aAAS,qBAAY,  
GAAZ,CAA/B,C;MAAA,iB;QAAoD,OAAO,I;;MAA9E,mBAAmB,I;MACnB,IAAI,6BAAJ,C;QACI,YAAgC,Y;Q  
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AuC,Y;QACvC,OAAa,wBAAN,KAAM,EAaiB,GAAjB,C;;K;uDAlrB,0B;MACI,sB;;Q7F+nCY,Q;QAaHb,iD;UA  
AgB,cAAhB,e;UAAsB,I6F/nCK,aAAS,gB7F+nCA,O6F/nCa,IAAb,M7F+nCd,C;YAAwB,qBAAO,O;YAAP,uB;;  
QAC9C,qBAAO,I;;M6FhoCH,yB;K;IAIO,8E;MAAA,wD;MACH,aAAY,E;MAEZ,YAA0B,MAAA,MAAK,qCAA  
L,C;MACvC,gBAAe,E;MAEf,oBAA4B,I;MAC5B,eAAc,K;MACd,iBAAgB,E;MAChB,iBAAqC,I;K;yEAerC,Y;  
MACI,IAAI,6BAAwB,YAA5B,C;QACI,gBAAqB,iBAAqD,O;QAC1E,IAAI,4DAAC,SAAlB,C;UACI,OAAO,C;;  
MAGf,IAAI,yDAAa,SAAK,OAAtB,C;QACI,oBAAe,2CAAW,UAAK,aAAL,CAAX,C;QACf,eAAU,iC;QACV,iB  
AAY,C;QACZ,OAAO,C;;QAEp,oBAAe,I;QACf,OAAO,C;;K;mEAlf,Y;MACI,IAAI,eAAS,EAAb,C;QACI,aAAQ,  
oB;MACZ,OAAO,eAAS,C;K;gEAGpB,Y;MAEoB,Q;MADhB,IAAI,CAAC,cAAL,C;QAAGB,MAAM,6B;MACN,  
IAAI,YAAJ,C;QACZ,yBAAqD,cAArD,C;;QAEa,OAAb,iB;;MAHJ,oB;MAKA,iBAaiB,S;MACjB,aAAQ,E;MAC  
R,OAAO,S;K;kEAGX,Y;M/E/CR,I+EgDyB,c/EhDrB,QAAJ,C;QACI,cAhByB,0B;QAIbZB,MAAM,6BAAsB,OA  
AQ,WAA9B,C;;M+E+CE,6BAAyB,cAAO,6BAAy,IAAnB,C;MACzB,iBAAy,I;MAEZ,uC;K;;6CAtdZ,Y;MAEI,  
2D;K;4DAyDJ,oB;MACI,mBAAmB,kBAAW,QAAX,C;MACnB,OAAW,iBAaiB,SAArB,GAAgC,IAAhC,GAA0  
C,Y;K;;;wCCtKrD,Y;MACI,aAAR,MAAM,OAAe,CAAP,IAAO,C;MAEb,OAAO,KAAP,IAAGB,C;M7BXpB,O6  
BYqB,M7BZf,C6BYuB,K7BZvB,C;M6BaF,OAAO,M;K;;ICNuB,qC;MAAC,kC;MAEnC,oBAakC,kB;MACIC,sB  
AAyB,C;K;yEAHU,Y;MAAA,8B;K;yFAGnC,Y;MAAA,0B;K,OAAA,gB;MAAA,0B;K;iDAWA,e;MACI,IAAI,0  
BAAJ,C;QAAoB,OAAO,K;MAC3B,OAAO,kBAAW,GAAX,MAAoB,S;K;4CAG/B,e;MACI,IAAI,0BAAJ,C;QA  
AoB,OAAO,I;MAC3B,YAAy,kBAAW,GAAX,C;MACZ,OAAW,UAAU,SAArB,GAAgC,KAhC,GAA2D,I;K;8  
CAI/D,sB;MjFVA,IAAI,EiFWQ,uBjFXR,CAAJ,C;QACI,cAda,qB;QAeb,MAAM,gCAAYB,OAAQ,WAAjC,C;;Mi  
FUN,eAAe,kBAAW,GAAX,C;MACf,kBAAW,GAAX,IAAkB,K;MAEIB,IAAI,aAAa,SAAJB,C;QACI,6B;QAEA,  
OAAO,I;;QAGP,OAAO,Q;;K;+CAIf,e;MACI,IAAI,0BAAJ,C;QAAoB,OAAO,I;MAC3B,YAAy,kBAAW,GAAX,  
C;MACZ,IAAI,UAAU,SAAd,C;Q9BnDJ,O8BoDyB,iB9BpDnB,C8BoD+B,G9BpD/B,C;Q8BqDE,6B;QAEA,OAA  
O,K;;QAGP,OAAO,I;;K;wCAKf,Y;MACI,oBAAa,kB;MACb,YAAO,C;K;IAKA,0E;MAAA,oD;MACH,cAAkC,M  
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AAS,U;K;8DAE3C,Y;MAIuB,gB;MAHnB,UAAU,eAAS,O;MACnB,iBAAU,G;MAES,+E;MAAnB,OAAO,iD;K;  
gEAGX,Y;MAEKc,UAA9B,M;MAAA,oC;MAA8B,YAAa,c;MjFchD,uB;MAeP,IAfoB,KAhB,QAAJ,C;QACI,cA  
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nC,Y;MACI,yD;K;IAqBkd,0F;MAAA,8B;MAAA,oD;K;kHAC9B,Y;MAAQ,uB;K;oHACN,Y;MAAQ,6CAAuB,g  
BAAvB,C;K;2EAE9B,oB;MAAwC,OAAA,2BAAuB,aAAI,gBAAJ,EAAS,QAAT,C;K;qEAE/D,Y;MAA+B,OAA  
A,mCAAY,uBAAC,IAAd,C;K;qEAC3C,Y;MAAkC,OAAA,mCAAY,uBAAC,IAAd,C;K;mEAC9C,iB;MAA4C,OA  
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OA,4BAAkC,K;;IArIE,sD;MAZpC,oB;MAYyD,0CAAqC,GAArC,EAA0C,KAA1C,C;MACrD,oBAAuC,I;MACv  
C,oBAAuC,I;K;wDAEvC,oB;MACI,WAAmB,iB;MACnB,OAAa,mEAAS,QAAT,C;K;;IAIrB,wC;MAAA,oB;MA  
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gBAAS,I;K;0DAGpB,Y;MAEI,IAAI,CAAC,cAAL,C;QAAGB,MAAM,6B;MAEtB,cAAc,0B;MACd,cAAO,O;MA  
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;K;4DAGX,Y;MIFwBR,IAAI,EkFvBc,eAAQ,IFuBtB,CAAJ,C;QACI,cAdW,e;QAEX,MAAM,6BAAsB,OAAQ,W  
AA9B,C;;MkFxBE,WAAc,iB;MAGP,oCAAP,0BAAO,C;MACP,gCAAI,cAAO,0BAAO,IAAd,C;MAEJ,cAAO,I;K  
;;iDAIf,mB;MAAyD,MAAM,qCAA8B,iCAA9B,C;K;6CAC/D,Y;MACI,WAAmB,Q;K;6DAGvB,mB;MAAgE,OA  
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,WAAmB,K;K;sDAEID,Y;MAAsC,WAAmB,iB;K;;iDAa7D,qB;MIFrBA,IAAI,EkF0BM,0BAAQ,IAAR,IAAgB,0  
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Z,IAAI,SAAS,IAAb,C;QACI,sBAAO,S;QACP,yBAAO,S;QACP,yBAAO,S;;QAGK,YAAa,KAAM,a;qQIFhC,uB  
;QAeP,IAfoB,KAehB,QA AJ,C;UACI,gBAhByB,0B;UAIbZB,MAAM,6BAAsB,SAAQ,WAA9B,C;;UAEN,sBAnB  
gB,K;;QkFkBZ,+B;QAEA,yBAAO,K;QACP,yBAAO,K;QAEP,qBAaA,S;QACb,qBAaA,S;;K;+CAIrB,qB;MAII,I  
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AlKxD,yB;MAoKc,Q;MAAN,sBAAM,+D;MAFV,Y;K;IAKA,kE;MAAA,uD;MAQ8D,eAAM,eAAN,EAAuB,UA  
AvB,Q;MA/KIE,yB;MAGLQ,sBAAM,gB;MATV,Y;K;IAYA,sD;MAAA,uD;MAA2C,qBAAK,eAAL,EAAsB,GA  
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,C;O;KAV9D,C;yEAYA,yB;MAAA,iB;MAAA,oB;QAUoD,OAAA,MAAW,OAAM,CAAN,C;O;KAV/D,C;+EAY  
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;MAAA,iB;QAaE,MAAM,6BAAsB,0CAAtB,C;;MAApC,eAAe,I;MACf,qBAAc,I;MACd,OAAO,QAAS,W;K;;;;I  
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EAHZ,EAGgB,IAHhB,C;MAKA,gFAGgB,EAHhB,EAGoB,IAHpB,C;MAKA,gFAGgB,EAHhB,EAGoB,IAHpB,  
C;MAKA,0EAGa,EAHb,EAGiB,IAHjB,C;MAKA,oGAG0B,EAH1B,EAG8B,IAH9B,C;MAKA,gGAGwB,EAHxB  
,EAG4B,IAH5B,C;MAUA,oC;K;;IA3JA,+C;MAAA,yB;MAAA,uC;K;;IAKA,qD;MAAA,yB;MAAA,6C;K;;IAKA  
,qD;MAAA,yB;MAAA,6C;K;;IAKA,qD;MAAA,yB;MAAA,6C;K;;IAKA,oD;MAAA,yB;MAAA,4C;K;;IAKA,iD;  
MAAA,yB;MAAA,yC;K;;IAKA,qD;MAAA,yB;MAAA,6C;K;;IAKA,mD;MAAA,yB;MAAA,2C;K;;IAKA,2D;M  
AAA,yB;MAAA,mD;K;;IAKA,yD;MAAA,yB;MAAA,iD;K;;IAKA,kD;MAAA,yB;MAAA,0C;K;;IAKA,iD;MAA  
A,yB;MAAA,yC;K;;IAKA,oD;MAAA,yB;MAAA,4C;K;;IAKA,mD;MAAA,yB;MAAA,2C;K;;IAKA,wD;MAAA,  
yB;MAAA,gD;K;;IAKA,4C;MAAA,yB;MAAA,oC;K;;IAKA,2C;MAAA,yB;MAAA,mC;K;;IAKA,gD;MAAA,yB;  
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CAKA,gB;MAG2D,OAAK,iBAAL,IAAK,CAAL,KAA2B,IAAK,c;K;IAE3F,kC;MAAA,sC;K;uDACI,oB;MAEQ,I  
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;K;;IAAA,oC;MAAA,a;aAAA,Y;UAAA,4C;aAAA,kB;UAAA,kD;aAAA,kB;UAAA,kD;aAAA,kB;UAAA,kD;aA  
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D;aAAA,S;UAAA,yC;aAAA,Q;UAAA,wC;aAAA,a;UAAA,6C;aAAA,W;UAAA,2C;aAAA,kB;UAAA,kD;aAAA,  
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D,2C;uBAA+B,O;;K;;IAC5E,8C;MAAA,kE;MAAuB,qCAAK,IAAL,C;MAAvB,Y;K;ICD8B,gC;MAe9B,gBAAiC ,YAAAY,SAAhB,GAA2B,OAA3B,GAAwC,E;K;uFAGjE,Y;MAAQ,OAAO,aAAY,O;K;yCAE/B,iB;MACW,gBAA P,a;MrGoGG,Q;MAAA,IqGpGc,KrGoGV,IAAS,CAAT,IqGpGU,KrGoGI,IAAS,2BAA3B,C;QAAA,OAAc,qBq GpGxB,KrGoGwB,C;;QqGpGf,MAAM,8BAA0B,mCAAYB,WAAzB,MAA1B,C;;MAAhC,W;K;kDAEJ,gC;MAA gF,OAAA,a1GiMY,W0GjMK,U1GiML,E0GjMiB,Q1GiMjB,C;K;6C0G/L5F,iB;MACI,qCAAU,KAAV,C;MACA, OAAO,I;K;6CAGX,iB;MACI,iBAAGB,SAAN,KAAM,C;MACHB,OAAO,I;K;6CAGX,uC;MACI,OAAA,IAAK,q BAAAY,wBAAS,MAArB,EAA6B,UAA7B,EAAyC,QAAzC,C;K;sCAET,Y;MAayB,UAEK,M;MAL1B,eAAe,E;M ACf,YAAAY,aAAO,OAAP,GAAgB,CAAhB,I;MACZ,OAAO,SAAS,CAAhB,C;QACI,UAAU,0BAAO,YAAP,EAA O,oBAAP,Q;QACV,IAAQ,eAAJ,GAAL,CAAJ,IAAwB,SAAS,CAArC,C;UACI,WAAW,0BAAO,cAAP,EAAO,sB AAP,U;UACX,IAAS,gBAAL,IAAK,CAAT,C;YACI,WAAW,+BAAW,iBAAX,wBAakB,gBAAIB,C;;YAEX,WA AW,+BAAW,gBAAX,wBAAiB,iBAAjB,C;;;UAGf,gCAAY,GAAZ,C;;;MAGR,gBAAS,Q;MACT,OAAO,I;K;6CA GX,iB;MAOI,iBAAGB,SAAN,KAAM,C;MACHB,OAAO,I;K;6CAGX,iB;MAQI,iBAAU,K;MACV,OAAO,I;K;6C AGX,iB;MAQI,iBAAGB,eAAN,KAAM,C;MACHB,OAAO,I;K;6CAGX,iB;MAC2C,2BAAO,KAAP,C;K;6CAE3C ,iB;MAOI,gBAAA,IAAK,SAAL,IAAe,wBAAS,MAAxB,C;MACA,OAAO,I;K;uCAGX,Y;MAU6B,kB;K;qDAE7 B,2B;K;8CAcA,kB;MAO0C,OAAA,IAAY,SAAY,SAAQ,MAAR,C;K;8CAEIE,8B;MAQ2D,OAAA,IAAY,SAAY, SAAQ,MAAR,EAAgB,UAAhB,C;K;kDAEnF,kB;MAQ8C,OAAA,IAAY,SAAY,aAAY,MAAZ,C;K;kDAEIE,8B; MASI,IAAI,MpGuGwC,YAAU,CoGvGID,IAAoB,aAAa,CAArC,C;QAAwC,OAAO,E;MAC/C,OAAO,IAAY,SA AY,aAAY,MAAZ,EAAoB,UAApB,C;K;4CAGnC,wB;MAWI,oCAAA,4BAAmB,KAAAnB,EAA0B,WAA1B,C;MA Eb,gBAAS,a1GmB+E,W0GnB9D,C1GmB8D,E0GnB3D,K1GmB2D,C0GnB/E,YAA6B,KAA7B,IAAqC,a1GgB2 B,W0GhBV,K1GgBU,C;M0GfzE,OAAO,I;K;6CAGX,wB;MAQI,oCAAA,4BAAmB,KAAAnB,EAA0B,WAA1B,C; MAEb,gBAAS,a1GK+E,W0GL9D,C1GK8D,E0GL3D,K1GK2D,C0GL/E,uBAA6B,kBAA7B,IAAqC,a1GE2B,W0 GFV,K1GEU,C;M0GDzE,OAAO,I;K;6CAGX,wB;MAUI,oCAAA,4BAAmB,KAAAnB,EAA0B,WAA1B,C;MAEb,g BAAS,a1GX+E,W0GW9D,C1GX8D,E0GW3D,K1GX2D,C0GW/E,GAAMC,eAAN,KAAM,CAAnC,GAASD,a1G dU,W0GcO,K1GdP,C;M0GezE,OAAO,I;K;6CAGX,wB;MAAaI,oCAAA,4BAAmB,KAAAnB,EAA0B,WAA1B,C;MA Eb,gBAAS,a1G9B+E,W0G8B9D,C1G9B8D,E0G8B3D,K1G9B2D,C0G8B/E,GAAMC,SAAN,KAAM,CAAnC,GA AgD,a1GjCgB,W0GiCC,K1GjCD,C;M0GkCzE,OAAO,I;K;6CAGX,wB;MAWI,oCAAA,4BAAmB,KAAAnB,EAA0 B,WAA1B,C;MAEb,gBAAS,a1G/C+E,W0G+C9D,C1G/C8D,E0G+C3D,K1G/C2D,C0G+C/E,GAAMC,SAAN,KA AM,CAAnC,GAAGD,a1GIDgB,W0GkDC,K1GIDD,C;M0GmDzE,OAAO,I;K;6CAGX,wB;MACuD,2BAAO,KAA P,EAAc,KAAc,C;K;6CAEvD,wB;MAUI,oCAAA,4BAAmB,KAAAnB,EAA0B,WAA1B,C;MAEb,eAAe,wBAAS,M; MACxB,gBAAc,IAAK,S1GnEqE,W0GmEpD,C1GnEoD,E0GmEjD,K1GnEiD,C0GmE1E,GAAkC,QAAIC,GAA6 C,IAAK,S1GtES,W0GsEQ,K1GtER,C;M0GuEzE,OAAO,I;K;gDAGX,qB;MAcI,IAAI,YAAAY,CAAhB,C;QACI,M AAM,gCAAYB,0BAAuB,SAAvB,MAAzB,C;;MAGV,IAAI,aAAa,WAAjB,C;QACI,gBAAS,a1G1F2E,W0G0F1D, C1G1F0D,E0G0FvD,S1G1FuD,C;;Q0G4FpF,aAAU,WAAV,MAAuB,SAAvB,M;UACI,qCAAU,CAAV,C;;;K;gD AKZ,sB;MAQI,oCAAA,4BAAmB,UAAAnB,EAA+B,WAA/B,C;MAEb,OAAO,a1G/GkE,W0G+GjD,U1G/GiD,C;K; gD0GkH7E,gC;MAQI,oCAAA,4BAAmB,UAAAnB,EAA+B,QAA/B,EAAyC,WAAzC,C;MAEb,OAAO,a1GzHiF,W 0GyHhE,U1GzHgE,E0GyHpD,Q1GzHoD,C;K;yC0G4H5F,Y;K;uCAcA,Y;MAAkC,oB;K;oCAEIC,Y;MAOI,gBA AS,E;MACT,OAAO,I;K;0CAGX,wB;MAQI,oCAAA,2BAAkB,KAAIB,EAAyB,WAAzB,C;MAEb,gBAAS,a1GjK +E,W0GiK9D,C1GjK8D,E0GiK3D,K1GjK2D,C0GiK/E,uBAA6B,kBAA7B,IAAqC,a1GpK2B,W0GoKV,QAAQ, CAAR,I1GpKU,C;K;+C0GuK7E,uC;MAYI,yBAAkB,UAAIB,EAA8B,QAA9B,EAAwC,WAAxC,C;MAEA,gBA Ac,IAAK,S1GILqE,W0GkLpD,C1GILoD,E0GkLjD,U1GILiD,C0GkL1E,GAAuC,KAAvC,GAA+C,IAAK,S1GrL O,W0GqLU,Q1GrLV,C;M0GsLzE,OAAO,I;K;kDAGX,wC;MACI,IAAI,aAAa,CAAb,IAAkB,aAAa,MAAnC,C;Q ACI,MAAM,8BAA0B,iBAAc,UAAAd,kBAAMC,MAA7D,C;;MAEV,IAAI,aAAa,QAAjB,C;QACI,MAAM,gCAAY B,gBAAa,UAAb,qBAAqC,QAArC,MAAzB,C;;K;+CAId,iB;MAYI,oCAAA,2BAAkB,KAAIB,EAAyB,WAAzB,C; MAEb,gBAAS,a1G7M+E,W0G6M9D,C1G7M8D,E0G6M3D,K1G7M2D,C0G6M/E,GAA6B,a1GhNmC,W0GgNI B,QAAQ,CAAR,I1GhNkB,C;M0GiNzE,OAAO,I;K;kDAGX,gC;MAWI,yBAAkB,UAAIB,EAA8B,QAA9B,EAA wC,WAAxC,C;MAEA,gBAAS,a1G9N+E,W0G8N9D,C1G9N8D,E0G8N3D,U1G9N2D,C0G8N/E,GAAC,C,a1GjO 8B,W0GiOb,Q1GjOa,C;M0GkOzE,OAAO,I;K;kDAGX,gE;MAc+C,iC;QAAA,oBAAYB,C;MAAG,0B;QAAA,aA AkB,C;MAAG,wB;QAAA,WAAgB,IAAK,O;MAKIF,IACf,I;MALhB,oCAAA,4BAAmB,UAAAnB,EAA+B,QAA/B

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AliBX,6C;MAAA,uD;MAKOC,2B;MALpC,Y,K;IAQA,8C;MAAA,uD;MAC4C,0BAAK,OAAQ,WAAb,C;MAD5  
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E;MAAA,qB;QAC3D,OAAI,OAAO,uBAAX,GAAiB,mBAAjB,GAA6C,SAAH,EAAG,C;O;K;4CADjD,Y;MAAk  
C,4BAAa,IAAb,EAAMb,GAAnB,EAAwB,GAAXB,kBAA6B,wCAA7B,C;K;2CAIIC,Y;MAI4C,uBAAgB,IAAhB,  
C;K;mDAE5C,iB;MAI4D,yBAAgB,IAAhB,EAAsB,KAAtB,C;K;;IC/BhE,8B;MAAA,e;MAAA,iB;MAAA,uB;K;I  
AAA,4B;MAAA,+B;O;MACI,4C;MACA,kD;MACA,0C;MACA,8C;K;;IAHA,mC;MAAA,kB;MAAA,2B;K;;IAC  
A,sC;MAAA,kB;MAAA,8B;K;;IACA,kC;MAAA,kB;MAAA,0B;K;;IACA,oC;MAAA,kB;MAAA,4B;K;;IAJJ,wB;  
MAAA,sH;K;;IAAA,6B;MAAA,a;aAAA,O;UAAA,gC;aAAA,U;UAAA,mC;aAAA,M;UAAA,+B;aAAA,Q;UAAA  
,iC;;UAAA,6D;;K;;IAOA,4B;MAKI,mD;MACA,2BAA4B,I;K;yCAE5B,Y;MAEiB,IAAN,I;M5JUX,IAAI,E4JXQ,  
mD5JWR,CAAJ,C;QACI,cAda,qB;QAeb,MAAM,gCAAYB,OAAQ,WAAjC,C;;M4JZC,QAAM,oBAAN,M;aACH,  
M;UAAc,Y;UAA d,K;aACA,O;UAAe,W;UAAf,K;;UACQ,wC;UAHL,K;;MAAP,W;K;sCAOJ,Y;MAIW,Q;MAHP,  
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CA,OAAO,kD;K;+CAeX,iB;MAII,2BAAY,K;MACZ,gD;K;sCAGJ,Y;MAII,+C;K;;ICjDkC,wB;MAoFtC,oC;MAp  
FgE,6B;K;sCAIhE,Y;MAAuC,0C;K;2CAEvC,mB;MAAwD,uB;;QvJkU3C,Q;QADb,YAA Y,C;QACC,sB;QAAb,O  
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;;QAEJ,sBAAO,E;;MuJvUiD,0B;K;+CAExD,mB;MAA4D,sB;;QvJ2V5D,eAAoB,0BAAa,SAAb,C;QACpB,OAA  
O,QAAS,cAAhB,C;UACI,IuJ7VsE,OvJ6VxD,QAAS,WuJ7V+C,UvJ6VtE,C;YACI,qBAAO,QAAS,Y;YAAhB,uB;  
;;QAGR,qBAAO,E;;MuJjWqD,yB;K;0CAE5D,Y;MAA+C,+CAAiB,CAAjB,C;K;kDAE/C,iB;MAAyD,+CAAiB,  
KAAjB,C;K;6CAEzD,8B;MAA8D,gCAAQ,IAAR,EAAC,SAAd,EAAYB,OAAzB,C;K;IAEIC,wD;MAAGf,uB;MA  
A/E,kB;MAAmC,4B;MAC5D,eAAyB,C;MAGrB,+DAAkB,gBAAIB,EAA6B,OAA7B,EAAsC,WAAK,KAA3C,C;  
MACA,eAAa,UAAU,gBAAV,I;K;iDAGjB,iB;MACI,+DAAkB,KAAIB,EAAYB,YAAzB,C;MAEA,OAAO,wBAA  
K,mBAAY,KAAZ,IAAL,C;K;4FAGY,Y;MAAQ,mB;K;;oCAGnC,iB;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAA  
O,I;MAC3B,IAAI,2BAAJ,C;QAAuB,OAAO,K;MAE9B,OAAO,2DAAC,IAAd,EAAoB,KAApB,C;K;sCAGX,Y;M  
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C,Y;MAEe,gB;MADX,IAAI,CAAC,cAAL,C;QAAgB,MAAM,6B;MACX,iE;MAAX,OAAO,+B;K;;IAO0B,sD;M  
AHZc,oB;MAGwD,iD;MAGhD,gEAAmB,KAAAnB,EAA0B,WAAkB,KAA5C,C;MACA,eAAa,K;K;0DAGjB,Y;M  
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;K;iEACI,uB;MACI,IAAI,QAAQ,CAAR,IAAa,SAAS,IAA1B,C;QACI,MAAM,8BAA0B,YAAS,KAAT,gBAAuB,  
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R,Y;MAAQ,c;;QxJkrDxD,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,K;UAAP,e;;QACrB,2B;QAAhB  
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B,C;K;+CAE1C,iB;MAAuD,+BAAS,KAAM,IAAf,IAAsB,GAAtB,GAA4B,wBAAS,KAAM,MAAf,C;K;+CAEnF,  
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;K;IAE/B,iC;MAAA,qC;K;gEACI,a;MAEoB,Q;MADhB,iBAAE,C;MACC,mB;MAAhB,OAAgB,cAAhB,C;QAAg  
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C,G5KwP/C,CAAtB,C;QACI,2B4KzPwE,mB;;Q5K4PxE,2BAAO,sE;;M4K5PoC,+B;K;;IAGN,mD;MAAC,wB;M  
AA2C,0B;K;4EAA3C,Y;MAAA,yB;K;iDAC1C,iB;MAA4C,OAAI,OAAJ,QAAL,EAAO,KAAP,C;K;mDACHD,Y;  
MAA+B,OAAI,SAAJ,QAAL,C;K;mDACnC,Y;MAAkC,OAAA,QAAL,W;K;iGACf,Y;MAAQ,OAAA,QAAL,K;K;k  
DACnC,Y;MAAkC,OAAA,QAAL,U;K;4DACtC,e;MAA4C,OAAA,QAAL,mBAAY,GAAZ,C;K;8DACHD,iB;MA  
AgE,OAAA,QAAL,qBAAc,KAAd,C;K;oDACpE,e;MAA+B,OAAA,QAAL,WAAI,GAAJ,C;K;iGACf,Y;MAAQ,O  
AAA,QAAL,K;K;mGACH,Y;MAAQ,OAAA,QAAL,O;K;oGACU,Y;MAAQ,OAAA,QAAL,Q;K;sDAE5E,sB;MAA  
yC,OAAA,QAAL,aAAI,GAAJ,EAAO,KAAT,C;K;uDAC7C,e;MAAkC,OAAA,QAAL,cAAO,GAAP,C;K;yDACtC,  
gB;MAA2C,QAAL,gBAAO,IAAP,C;K;gDAC/C,Y;MAAuB,QAAL,Q;K;qEAE3B,e;MAAmD,gBAAJ,Q;MAAI,4B;  
M5KuOxQ,C;MALX,YAAy,oB4KlOyD,G5KkOzD,C;MACZ,IAAI,iBAAiB,CAAC,4B4KnO+C,G5KmO/C,CAAt  
B,C;QACI,2B4KpOwE,mB;;Q5KuOxE,2BAAO,sE;;M4KvOoC,+B;K;;I5KvFnD,oB;MAAA,wB;MACI,8C;K;gCA  
EA,iB;MAA4C,oCAAsB,KAAM,U;K;kCACxE,Y;MAA+B,Q;K;kCAC/B,Y;MAAkC,W;K;gFAEX,Y;MAAQ,Q;K  
;iCAC/B,Y;MAAkC,W;K;2CAEIC,e;MAA+C,Y;K;6CAC/C,iB;MAAsD,Y;K;mCACtD,e;MAAwC,W;K;mFACY,  
Y;MAAQ,6B;K;gFAC/B,Y;MAAQ,6B;K;kFACI,Y;MAAQ,8B;K;uCAEjD,Y;MAAiC,6B;K;;IAjBrC,gC;MAAA,+  
B;QAAA,c;;MAAA,wB;K;IAoBA,oB;MAMuE,Q;MAA7B,OAA6B,uE;K;IAEvE,wB;MAaI,OAAI,KAAM,OAAN  
,GAAa,CAAjB,GAA0B,QAAN,KAAM,EAAM,qBAAc,YAAy,KAAM,OAAIB,CAAd,CAAN,CAAIB,GAA6E,U;  
K;kFAEjF,yB;MAAA,oD;MAAA,mB;QA08C,iB;O;KAP9C,C;8FASA,yB;MAAA,wE;MAAA,mB;QAQ4D,2B;O;  
KAR5D,C;IAUA,+B;MAyID,gBAA7C,qBAAoB,YAAy,KAAM,OAAIB,CAApB,C;MAAqD,wB;MAArD,OUIO,  
S;K;wFVMX,yB;MAAA,4D;MAAA,mB;QA0sD,qB;O;KAPtD,C;IASA,4B;MAM8G,gBAAvC,eAAc,YAAy,KA

AM,OAAIB,CAAd,C;MAA+C,wB;MAA/C,OUrB5D,S;K;4FVuBX,yB;MAAA,wE;MAAA,mB;QAK8D,2B;O;KA  
L9D,C;IAOA,8B;MAU+E,OAAM,QAAN,KAAM,EAAM,qBAAc,YAAy,KAAM,OAAIB,CAAd,CAAN,C;K;sFA  
ErF,yB;MchBA,wE;MdgBA,gC;QcZiC,gBAAtB,oB;Qd8BiB,aU7DxB,W;QV6DA,OU5DO,SI8B2C,Q;O;KdYtD,C  
;uFA0BA,yB;McnCA,uE;MdmCA,0C;Qc/ByC,gBAA9B,mBdqDiB,QcrDjB,C;QdqD2B,aU3FIC,W;QV2FA,OU1F  
O,SIqCmD,Q;O;Kd+B9D,C;4FAoCA,qB;MAK+D,QAAC,mB;K;kGAeH,e,qB;MAWI,OAAO,qBAAGB,mB;K;sFA  
G3B,yB;MAAA,oD;MAAA,4B;QAM2D,uCAAQ,U;O;KANnE,C;sFAQA,mC;MASI,OAAI,mBAAJ,GAAe,cAAf,  
GAAmC,S;K;yFAEvC,yB;MAyBA,kC;MAAA,8B;MAzBA,iC;QAAGCiC,Q;QAxB2E,OAwbxD,CAAnB,wDAAmB  
,oBAxB0E,GAwBpE,C;O;KAhCpD,C;+EAUA,yB;MAAA,kC;MAAA,8B;MAAA,iC;QAKiC,Q;QAA7B,OAAgD,  
CAAnB,wDAAmB,YAAI,GAAJ,C;O;KALpD,C;+EAOA,iC;MAKI,sBAAI,GAAJ,EAAS,KAAT,C;K;4FAGJ,yB;  
MAAA,kC;MAAA,8B;MAAA,iC;QAOiC,Q;QAA7B,OAAgD,CAAnB,wDAAmB,oBAAY,GAAZ,C;O;KAPpD,C;  
gGASA,4B;MASsG,OAAA,SAAK,qBAAc,KAAd,C;K;kFAG3G,yB;MAAA,gD;MAAA,8B;MAAA,iC;QASiC,Q;  
QAA7B,OAAuD,CAA1B,+DAA0B,eAAO,GAAP,C;O;KAT3D,C;6FAWA,qB;MAWoE,oB;K;6FAEpE,qB;MAW  
oE,sB;K;kFAEpE,yB;MAAA,6B;MAAA,4B;QAIgE,qBAAK,aAAL,EAAU,eAAV,C;O;KAJhE,C;2FAMA,wC;MA  
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AY,oBAAI,GAAJ,C;QACZ,IAAI,iBAAiB,CAAC,4BAAY,GAAZ,CAATB,C;UACI,OAAO,c;UAGP,OAAO,sE;;O  
;KANf,C;IAUA,oC;MAUkD,uCAAqB,GAArB,C;K;sFAEID,wC;MAUW,Q;MADP,YAAy,oBAAI,GAAJ,C;MAC  
L,IAAI,aAAJ,C;QACH,aAAa,c;QACb,sBAAI,GAAJ,EAAS,MAAT,C;QACA,a;QAEA,Y;;MALJ,W;K;wFASJ,qB  
;MAMwF,OAAA,iBAAQ,W;K;wFAEHG,qB;MAMgH,OAAA,iBAAQ,W;K;4FAExH,6C;Maq1BoB,Q;MAAA,Ob  
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1BZ,CAAE,OAAf,CAA1B,C;;Mbj1BhB,OAA6B,W;K;wFAGjC,6C;Ma60BoB,Q;MAAA,Obr0BT,iBaq0BS,W;MA  
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M;QAAK,IAAC,yBAAD,EAAM,2B;QACP,sBAAI,GAAJ,EAAS,KAAT,C;;K;IAIR,oC;MAIyB,Q;MAAA,uB;MA  
ArB,OAAqB,cAArB,C;QAAqB,wB;QAAhB,IAAC,yBAAD,EAAM,2B;QACP,sBAAI,GAAJ,EAAS,KAAT,C;;K;I  
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Y,cAAZ,CAApB,C;Qa8xBH,Q;QAAA,Obh1BT,iBag1BS,W;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;Ubh1Ba,Wai  
1Bb,aAAGB,Obj1Be,Iai1B/B,Eb/xB2C,Sa+xBjB,CAAE,OAAf,CAA1B,C;;Qb/xBhB,OAlD6B,W;O;KAyCjC,C;OF  
AYA,yB;MAAA,0D;MAAA,uE;MAAA,uC;QAYW,kBAAU,mBAAoB,YAAy,cAAZ,CAApB,C;Qa+wBD,Q;QA  
AA,Obr0BT,iBaq0BS,W;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;Ubr0Ba,Was0Bb,abhxBYc,SagxBrC,CAAY,OA  
AZ,CAAJ,EAAYC,Obt0BC,Mas0B1C,C;;QbhxBhB,OAtD6B,W;O;KAOCjC,C;0FAeA,yB;MAAA,wE;MAAA,uC;  
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C;MAOoB,Q;MAAA,OAAA,SapJoE,QAAQ,W;MAoJ5F,OAAgB,cAAhB,C;QAAGB,yB;QACZ,IAAI,CAAC,UA  
AU,OAAV,CAAL,C;UACI,WAAy,aAAI,OAAQ,IAAZ,EAAiB,OAAQ,MAAzB,C;;MAGpB,OAAO,W;K;2FAG  
X,yB;MAAA,wE;MAAA,uC;QAOW,kBAAY,oB;QafH,Q;QAAA,OApJoE,iBAAQ,W;QAoJ5F,OAAgB,cAAhB,  
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M,cAAN,C;eACH,C;YAAK,iB;YAAL,K;eACA,C;YAAK,aAAU,8BAAJ,GAaKB,sBAAK,CAAL,CAAIB,GAA+  
B,oBAAW,OAAhD,C;YAAL,K;;YACQ,0BAAM,qBAAoB,YAAy,cAAZ,CAApB,CAAN,C;YAHL,K;;QAAP,W;;  
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O,O;QzKtD3H,MAAM,gCAAyB,SAAQ,WAAjC,C;;MyK2DV,kBAAuB,aAAO,O;MAC9B,oBAA8B,C;MAE9B,s  
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B;MAGiE,UAQ1C,MAR0C,EAe1C,MAf0C,EAqBtD,M;MAAtBP,aACQ,KAAM,OAAN,GAAa,IAAK,KAAtB,GA  
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B,C;O;KA5BV,C;IA0CoC,mC;MAAQ,4D;K;IAE5C,4C;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,0C;MAAA,6C;  
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C;K;;IAAW,mD;MAAA,gC;MAAA,2C;K;;IAL1E,sC;MAAA,sJ;K;;IAAA,2C;MAAA,a;aAAA,qB;UAAA,4D;aA  
AA,W;UAAA,kD;aAAA,S;UAAA,gD;;UAAA,qF;;K;;6ECnDA,yB;MAAA,0B;MAAA,mC;QAGsD,OAAiC,OAA  
3B,SAAL,GAAuB,KAAS,C;O;KAHvF,C;2EAKA,yB;MAAA,0B;MAAA,mC;QAGqD,OAAgC,OAA1B,SAAL,G  
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C;O;KAHvF,C;6EAKA,yB;MAAA,0B;MAAA,4B;QAGqC,OAAqB,OAAP,CAAR,SAAe,C;O;KAH1D,C;+EAMA  
,yB;MAAA,4B;MAAA,mC;QAGyD,OAAiC,QAA3B,SAAL,GAAuB,KAAS,C;O;KAH1F,C;6EAKA,yB;MAAA,4  
B;MAAA,mC;QAGwD,OAAgC,QAA1B,SAAL,GAAuB,KAAS,C;O;KAHxF,C;+EAKA,yB;MAAA,4B;MAAA,m  
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A,8B;MACA,2B;QAAA,qE;MACA,yB;QAAA,YAAqB,E;MAJrB,sB;MACA,sB;MACA,kB;MACA,8B;MACA,0  
B;K;;IAGJ,iD;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,+C;MAAA,kD;O;MAKI,wG;MACA,wG;MACA,8F;K;;I  
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6B;;K;;;iEA+CA,6B;;K;;ICrDuC,0C;MACvC,uBAAoB,Y;K;wDAEPB,wC;MAM6F,W;K;uDAE7F,wC;K;oDA  
MA,6B;MACI,OAAO,oB;K;oDAGX,oC;MACI,eAAe,IAAK,gB;MACpB,IAAI,CAAC,0BAAa,QAAb,EAAuB,QA  
AvB,EAAiC,KAAjC,CAAL,C;QACI,M;;MAEJ,uBAAa,K;MACb,yBAAY,QAAZ,EAAAsB,QAAtB,EAAgC,KAAh  
C,C;K;;4EC9BR,wC;MAqBI,OAAO,e;K;4EAGX,+C;MAuBI,cAAI,KAAJ,C;K;4EAIJ,wC;MAmBI,OAAO,cAAI,  
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F,+B;QzLpHhF,MAAM,gCAAYB,OAAQ,WAAjC,C;;K;I0LpBc,6C;MAAsCxB,oC;MA/BA,iB;MANA,Y;MACA,Y;  
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CbiD,8C;MACjD,4B;MACA,0C;K;oEADA,Y;MAAA,2B;K;2EACA,Y;MAAA,kC;K;uCAGA,iB;MACI,OAAO,0  
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hC,C;K;yCAIX,Y;MACI,OAAW,cAAJ,GAAe,EAaf,GAAuB,MAAW,SAAN,UAAW,CAAX,QAAqC,SAAb,iBA  
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C;K;iDAC7E,Y;MAAkC,QAAC,8BAAiB,UAAjB,EAAwB,iBAAXB,C;K;;IACr,gD;MAI3B,gBAAqB,K;MACrB,u  
BAA4B,Y;K;0FACD,Y;MAAQ,oB;K;iGACD,Y;MAAQ,2B;K;2DAE1C,gB;MAA+D,YAAK,C;K;mDAEpE,iB;M  
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AxB,C;K;IAQvD,+C;MAI1B,gBAAqB,K;MACrB,uBAA4B,Y;K;yFACF,Y;MAAQ,oB;K;gGACD,Y;MAAQ,2B;  
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E,C;+EAmBA,4B;MAIsE,OAAA,KAAM,iBAAQ,SAAR,C;K;IAE5E,0F;MAKI,IAAK,cAAc,CAAf,IAAsB,aAAa,CAAnC,IAA0C,cAAa,SAAK,OAAL,GAAc,MAAd,IAAb,CAA1C,IAAiF,eAAc,KAAM,OAAN,GAAe,MAAf,IAAd,CAArF,C;QACI,OAAO,K;;MAGX,iBAAc,CAAd,UAAsB,MAAtB,U;QACI,IAAI,CAA0B,SAAzB,qBAAK,aAAa,KAAb,IAAL,CAAyB,EAAO,iBAAM,cAAc,KAAd,IAAN,CAAP,EAAmC,UAAAnC,CAA9B,C;UACI,OAAO,K;;MAEf,OAAO,I;K;IAGX,mD;MAG+C,0B;QAAA,aAAsB,K;MACjE,OAAA,SAAK,OAAL,GAAc,CAAd,IAA2B,SAAR,qBAAK,CAAL,CAAQ,EAAO,IAAP,EAAa,UAAb,C;K;IAE/B,iD;MAG6C,0B;QAAA,aAAsB,K;MAC/D,OAAA,SAAK,OAAL,GAAc,CAAd,IAAmC,SAAhB,qBAAK,2BAAL,CAAgB,EAAO,IAAP,EAAa,UAAb,C;K;IAEvC,qD;MAGyD,0B;QAAA,aAAsB,K;MAC3E,IAAI,CAAC,UAAD,IAAe,6BAAf,IAAiC,0BAArC,C;QACI,OAAy,WAAL,SAAK,EAAW,MAAX,C;;QAEZ,OAAO,6BAAkB,CAAIB,EAAqB,MAArB,EAA6B,CAA7B,EAAgC,MAAO,OAAvC,EAA+C,UAA/C,C;K;IAGf,iE;MAG0E,0B;QAAA,aAAsB,K;MAC5F,IAAI,CAAC,UAAD,IAAe,6BAAf,IAAiC,0BAArC,C;QACI,OAAy,aAAL,SAAK,EAAW,MAAX,EAAmB,UAAAnB,C;;QAEZ,OAAO,6BAAkB,UAAIB,EAA8B,MAA9B,EAAc,CAAtC,EAAyC,MAAO,OAAhD,EAAwD,UAAxD,C;K;IAGf,mD;MAGuD,0B;QAAA,aAAsB,K;MACzE,IAAI,CAAC,UAAD,IAAe,6BAAf,IAAiC,0BAArC,C;QACI,OAAy,SAAL,SAAK,EAAS,MAAT,C;;QAEZ,OAAO,6BAAkB,mBAAS,MAAO,OAAhB,IAAIB,EAA0C,MAA1C,EAakD,CAAID,EAAqD,MAAO,OAA5D,EAAoE,UAApE,C;K;IAMf,wD;MAQ8D,0B;QAAA,aAAsB,K;MACHf,qBfjnBO,MAAO,KeinBa,SAAK,OfjnBIB,EeinB0B,KAAM,OfjnBhC,C;MemnBd,QAAQ,C;MACR,OAAO,IAAI,cAAJ,IAA8B,SAAR,qBAAK,CAAL,CAAQ,EAAO,iBAAM,CAAN,CAAP,EAA8B,UAA9B,CAArC,C;QACI,a;;MAEJ,IAAS,mBAAL,SAAK,EAAmB,IAAI,CAAJ,IAAnB,CAAL,IAAwC,mBAAN,KAAM,EAAmB,IAAI,CAAJ,IAAnB,CAA5C,C;QACI,a;;MAEJ,OAAO,8BAAY,CAAZ,EAAe,CAAf,CAAkB,W;K;IAG7B,wD;MAQ8D,0B;QAAA,aAAsB,K;MACHf,iBAiB,SAAK,O;MACtB,kBAAkB,KAAM,O;MACxB,qBfxoBO,MAAO,KewoBa,UfxoBb,EewoByB,WfxoBzB,C;MeoBd,QAAQ,C;MACR,OAAO,IAAI,cAAJ,IAA+C,SAAzB,qBAAK,aAAa,CAAb,GAAiB,CAAjB,IAAL,CAAyB,EAAO,iBAAM,cAAc,CAAd,GAAkB,CAAIB,IAAnB,CAAZD,C;QACI,a;;MAEJ,OAAO,8BAAY,aAAa,CAAb,IAAZ,EAA4B,UAA5B,CAAwC,W;K;IAMnD,8D;MAQqD,0B;QAAA,aAakB,C;MAAG,0B;QAAA,aAAsB,K;MAMnE,UAAkB,M;MAL3C,IAAI,CAAC,UAAD,IAAe,KAAM,OAAN,KAAC,CAA7B,IAAkC,6BAAtC,C;QACI,WAAiB,SAAN,KAAM,C;QACjB,ONjtBwF,kB8G3ME,oBxG45BrE,IwG55BqE,C9G2MF,EMitB7D,UNjtB6D,C;;MMotBnE,uBAAX,UAAW,EAAc,CAAd,C;MAAkB,oC;kBAA3C,gD;QACI,kBAAkB,qBAAI,KAAJ,C;QACR,c;;UjCikXE,U;UAAhB,4BiCjkXQ,KjCikXR,kB;YAAgB,cAAhB,UiCjkXQ,KjCikXR,S;YAAsB,IiCjkXC,SAAH,UjCikXgB,oBiCjkXhB,CAAG,0BjCikXD,C;cAAwB,aAAO,I;cAAP,e;;UAC9C,aAAO,K;;QiCikXH,e;UACI,OAAO,K;;MAEf,OAAO,E;K;IAGX,ke;MASyD,0B;QAAA,aAakB,2B;MAAW,0B;QAAA,aAAsB,K;MACxG,IAAI,CAAC,UAAD,IAAe,KAAM,OAAN,KAAC,CAA7B,IAAkC,6BAAtC,C;QACI,WAAiB,SAAN,KAAM,C;QACjB,ONruB4F,sB8G3MM,oBxGg7BzE,IwGh7ByE,C9G2MN,EMquB7D,UNruB6D,C;;kBMyuBhG,iBAAyB,eAAX,UAAW,EAAa,2BAAb,CAAzB,WAAwD,CAAxD,U;QACI,kBAAkB,qBAAI,KAAJ,C;QACR,c;;UjCyiXE,Q;UAAhB,wBiCziXQ,KjCyiXR,gB;YAAgB,cAAhB,UiCziXQ,KjCyiXR,O;YAAsB,IiCziXC,SAAH,UjCyiXgB,oBiCziXhB,CAAG,0BjCyiXD,C;cAAwB,aAAO,I;cAAP,e;;UAC9C,aAAO,K;;QiC1iXH,e;UACI,OAAO,K;;MAGf,OAAO,E;K;IAIX,8E;MAA2G,oB;QAAA,OAAGB,K;MAOrG,UAKA,M;MAXIB,cAAkB,CAAC,IAAL,GACV,aAAW,gBAAX,UAAW,EAAc,CAAd,CAAX,EAAsC,eAAT,QAAS,EAAa,gBAAb,CAAtC,CADU,GAGV,SAAW,eAAX,UAAW,EAAa,2BAAb,CAAX,EAAmD,gBAT,QAAS,EAAc,CAAd,CAAnD,C;MAEJ,IAAI,iCAAkB,yBAAtB,C;QACkB,yB;QAAAd,OAAc,cAAAd,C;UAAc,uB;UACV,IAAU,cAAN,KAAM,EAAc,CAAd,EAAiB,SAAjB,EAAuB,KAAvB,EAA8B,KAAM,OAAP,C,EAA4C,UAA5C,CAAV,C;YACI,OAAO,K;;QAGD,2B;QAAAd,OAAc,gBAAd,C;UAAc,2B;UACV,IAAU,kBAAN,KAAM,EAAkB,CAAIB,EAAqB,SAArB,EAA2B,OAA3B,EAakC,KAAM,OAAX,C,EAAgD,UAAhD,CAAV,C;YACI,OAAO,O;;MAGnB,OAAO,E;K;IAGX,qE;MAUsB,UAMA,M;MAfIB,IAAI,CAAC,UAAD,IAAe,OAAQ,KAAR,KAAGB,CAAnC,C;QACI,aAAqB,UAR,OAAQ,C;QACrB,YAAgB,CAAC,IAAL,GAAW,sBAAQ,MAAR,EAAgB,UAAhB,CAAX,GAA4C,0BAAY,MAAZ,EAAoB,UAApB,C;QACxD,OAAW,QAAQ,CAAZ,GAAe,IAAf,GAAyB,UAAAS,MAAT,C;;MAGpC,cAAkB,CAAC,IAAL,GAAW,aAAW,gBAAX,UAAW,EAAc,CAAd,CAAX,EAA6B,gBAA7B,CAAX,GAAoD,SAAW,eAAX,UAAW,EAAa,2BAAb,CAAX,EAA0C,CAA1C,C;MAEIE,IAAI,6BAAJ,C;QACkB,yB;oBAAd,OAAc,cAAAd,C;UAAc,yB;UACmB,sB;;Yb7sBrB,U;YAAA,Sa6sBa,Ob7sBb,W;YAAhB,OAAG

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AA,4B;QAAQ,+C;O;KAAR,C;mIAUE,yB;MAAA,6C;MAAA,iD;MAAA,4B;QAAQ,+C;O;KAAR,C;uDAK9B,iB;  
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AM,aAAN,KAAM,yC;K;wDAGxD,iB;MAKgD,OAAM,WAAN,KAAM,0C;K;wDAEtD,iB;MAKiD,OAAM,aA  
AN,KAAM,0C;K;wDAEvD,iB;MASmD,OAAM,aAAN,KAAM,0C;K;wDAGzD,iB;MAKgD,OAAM,WAAN,KA  
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,iB;MAS8C,OAAM,aAAN,KAAM,qC;K;mDAGpD,iB;MAK2C,OAAM,WAAN,KAAM,qC;K;mDAEjD,iB;MAK  
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D,I;;UAHwD,O;;K;;;IA/XhE,0C;MAAA,yC;QAAA,wB;;MAAA,kC;K;oCAwYA,Y;MAC6C,kBAAy,YAAD,aAA  
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B;MAAQ,+D;K;yEAG/B,+B;MAIqE,8BAAW,SAAX,C;K;2EAERe,+B;MAUwE,8BAAW,SAAX,C;K;IAIxE,yC;  
MACI,aAAa,KAAM,O;MACnB,IAAI,WAAU,CAAd,C;QAAiB,MAAM,gCAAYB,qBAAzB,C;MACvB,YAAY,C;  
MACZ,aAAa,gCAAS,K;MACtB,qBAAqB,U;MACrB,QAAM,iBAAM,KAAN,CAAN,C;aACI,E;aAAA,E;UAA Y,  
qB;UAAZ,K;;MAEJ,cAAc,QAAQ,C;MACtB,iBAAiB,WAAiB,aAAN,KAAM,EA AW,EAAX,C;MAE9B,cAAU,K  
AAV,C;QACI,MAAM,gCAAYB,eAAzB,C;WACV,qBAAM,KAAN,MAAGB,EA AhB,C;QACI,IAAI,mCAAW,M  
AAf,C;UAAuB,MAAM,+B;QAC7B,sBAAsB,K;QACtB,sBAAsB,K;QACtB,eAA8B,I;QAC9B,OAAO,QAAQ,MA  
Af,C;UACI,IAAI,iBAAM,KAAN,MAAGB,EA ApB,C;YACI,IAAI,mBAAMB,mCAAW,MAAIC,C;cAA0C,MAA  
M,+B;YACHD,kBAAkB,I;YACIB,Q;;UAekB,iBA Ae,K;UA+EjD,QA HgC,U;UAIhC,Y;YAAO,eAhFqB,KAgFjB,  
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YAAI,OAAJ,C;;YtByrCO,MAAM,gCAAYB,qCAAzB,C;;UAA9C,qB;UACA,qB;UACA,WAAW,sBAAsB,QAAtB  
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AzB,C;UACHd,WAAW,I;UACX,eAAyB,WAAV,SAAU,EAAQ,EAAR,C;UACzB,IAAI,+CAAgC,WAAW,CAA/C,C;YACI,YAAY,SiBjmCgE,WjBimC5C,CiBjmC4C,EjBimCzC,QiBjmCyC,C;YjBkmC5E,4BAA2C,aAAjC,0BA A0B,KAA1B,CAAiC,EAAW,IAAX,CAA3C,C;YACA,4BAAmD,aAAX,SAA9B,SiBtmCmD,WjBsmC/B,QiBtmC +B,CjBsmCrB,CAAW,EAAW,IAAX,CAAnD,C;;YAEA,4BAA+C,aAArC,0BAA0B,SAA1B,CAAqC,EAAW,IAA X,CAA/C,C;;aAIZ,c;QACI,MAAM,+B;;QACV,IAAM,cAAN,KAAM,EAAC,KAAd,EAaqB,cAArB,EAaqC,CA ArC,EQ/xCH,MAAO,KR+xCmD,SAAS,KAAT,IQ/xCnD,ER+xCmE,cAAe,OQ/xClF,CR+xCJ,EAA4G,IAA5G,CA AN,C;UACI,SAAS,gCAAS,S;;UAIIB,iBAA8B,I;UAC9B,iBAAiB,K;UACjB,kBAAkB,CAAC,O;UACnB,IAAI,W AAW,iBAAM,KAAN,MAAgB,EAA3B,IAAwC,QAAN,KAAM,CAAN,KAAGB,EAAtD,C;YACI,cAAc,I;YACd,I AAI,oCAAW,uBAAX,EAAW,MAAX,CAAJ,C;cAAyB,MAAM,gCAAyB,eAAzB,C;;UAEnC,OAAO,QAAQ,MA Af,C;YACI,IAAI,cAAc,WAAIB,C;cA8CZ,UA7CwC,K;cA8CxC,Y;gBAAO,mBA9CiB,KA8Cb,O;gBAAJ,W;kBA Ac,SA9C4B,UA8CIB,YA9CP,KA8CO,YAAK,GAAL,EA9CkB,MAAM,E;;;gBA8Cd,iB;;cA9CzB,QA+CT,G;;YA 7CK,aAAa,I;YACS,mBAaE,K;YA0CjD,UAHgC,Y;YAIhC,Y;cAAO,mBA3CqB,KA2CjB,O;cAAJ,W;gBAAC,WA AU,YA3CH,KA2CG,YAAK,GAAL,E;gBAAV,SA3CqC,CAAM,kBAAK,EAAL,CAAN,uCAAkB,oBAAM,E;;;c A2CzC,iB;;YA3C7B,kBAAGB,KiB5nCgE,WjBmqClF,YiBnqCkF,EjBwqCrF,GiBxqCqF,C;YjB6nChF,IAAI,WuB 1jCgC,YAAU,CvB0jC9C,C;cAAyB,MAAM,+B;YAC/B,gBAAS,WAAU,OAAAnB,I;YACqB,mBAaE,K;YAuChD, UAHgC,Y;YAIhC,Y;cAAO,mBAxCoB,KAwChB,O;cAAJ,W;gBAAC,WAAU,YAxCJ,KAwCI,YAAK,GAAL,E;g BAAV,SAxCoC,CAAM,kBAAK,GAAL,CAAN,mC;;;cAwChB,iB;;YAxC7B,eAAe,KiB/nCiE,WjBmqClF,YiBnq CkF,EjBwqCrF,GiBxqCqF,C;YjBgoChF,gBAAS,QAAS,OAAIB,I;YACA,aAAW,wBAAwB,QAAXB,C;YACX,IA AI,cAAY,IAAZ,IAAoB,2BAAY,MAAZ,MAAxB,C;cAAOC,MAAM,gCAAyB,yCAAzB,C;YACHD,aAAW,M;YA CX,iBAAYB,WAAV,WAAU,EAAQ,EAAR,C;YACzB,IAAI,aAAW,CAAF,C;cACI,cAAY,WiBtoCgE,WjBsoC5C, CiBtoC4C,EjBsoCzC,UiBtoCyC,C;cjBuoC5E,4BAAYB,aAAT,OAAN,OAAM,CAAS,EAAW,MAAX,CAAzB,C;c ACA,4BAAmD,aAAX,SAA9B,WiB3oCmD,WjB2oC/B,UiB3oC+B,CjB2oCrB,CAAW,EAAW,MAAX,CAAnD,C; cACA,IAAI,QAAQ,MAAZ,C;gBAAoB,MAAM,gCAAyB,mCAAzB,C;;cAE1B,4BAA6B,aAAT,OAAV,WAAU,C AAS,EAAW,MAAX,CAA7B,C;;;MAKhB,OAAW,UAAJ,GAaiB,MAAD,aAAhB,GAA6B,M;K;IAIxC,0C;MAC I,aAAa,KAAM,O;MACnB,iBAAiB,C;MACjB,IAAI,SAAS,CAAT,IAAc,YAAY,IAAZ,mBAAM,CAAN,EAAlB,C ;QAAoC,+B;;MACHc,YAAC,SAAS,UAAT,IAAD,IAAwB,E;MAAxB,S;QAA4D,gBAA7B,yBAakB,iBAAN,KA AM,CAAIB,C;QAA6B,c;;UU4ThD,U;UADhB,IAAI,wCAASB,mBAA1B,C;YAAqC,aAAO,I;YAAP,e;;UACrB,6B ;UAAhB,OAAgB,gBAAhB,C;YAAgB,2B;YAAM,IAAI,CV5T4C,CAAa,kBAAK,EAAL,CAAb,oCU4TjC,OV5Ti C,EU4ThD,C;cAAyB,aAAO,K;cAAP,e;;UAC/C,aAAO,I;;QV7TyD,iB;;MAAhE,S;QAEI,OAAW,iBAAM,CAAN ,MAAY,EAAhB,sD;;MAGX,OAAiB,WAAN,KAAM,EAAW,GAAX,CAAV,GAAyC,OAAR,QAAN,KAAM,EA A K,CAAL,CAAQ,CAAzC,GAA6D,OAAN,KAAM,C;K;IAKxE,0D;MAII,QAHgC,U;MAIhC,OAAO,IAAI,gBAAJ,I AJqC,SAIvB,CAAU,iCAAK,CAAL,EAAV,CAArB,C;QAAyC,a;;MAJzC,OiBnqC4F,oBjBmqClF,UiBnqCkF,EjB wqCrF,CiBxqCqF,C;K;IjBqqChG,qD;MACI,QAAQ,U;MACR,OAAO,IAAI,gBAAJ,IAAc,UAAU,iCAAK,CAAL, EAAY,CAArB,C;QAAyC,a;;MACzC,OAAO,C;K;;;IAMBX,8B;MAA+C,qCAAQ,OAAR,E;K;IAC/C,+B;MAAg D,2CAAS,OAAT,E;K;IAEHd,sC;MAAiD,oBAAS,sBAAGB,CAAhB,CAAT,C;K;IACjD,wC;MAAmD,oBAAU,uB AAIb,CAAJB,CAAD,yBAAuB,CAAvB,EAAT,C;K;IACnD,oD;MAAoE,oBAAU,sBAAGB,CAAhB,CAAD,yBAA sB,iBAAtB,EAAT,C;K;IACpE,0C;MACI,IAAI,sEAAqB,SAArB,CAAJ,C;QAAA,OACI,gBAAGB,KAAhB,C;;QA DJ,OAGI,iBAAiB,cAAc,KAAd,CAAJB,C;;K;IAGR,4C;MACI,IAAI,kEAAgC,mBAAhC,CAAJ,C;QAAA,OACI,g BAAgB,cAAc,MAAd,CAAhB,C;;QADJ,OAGI,iBAAwB,WAAP,MAAO,yBAASB,UAAtB,CAAxB,C;;K;IwMI3C R,8B;MAEGD,QAAM,SAAN,M;aAC5C,a;UAD4C,OACHB,I;aAC5B,c;UAF4C,OAEf,I;aAC7B,c;UAH4C,OAGf,I; aAC7B,S;UAJ4C,OAIpB,G;aACxB,S;UAL4C,OAKpB,G;aACxB,O;UAN4C,OAMtB,G;aActB,M;UAP4C,OAov B,G;;UpMuEwB,MAAM,6BAA8B,CoMtEnE,mBAAGB,SpMsEmD,YAA9B,C;;K;IoMnEvD,4C;MACwE,QAAM, SAAN,C;aACpE,I;UADoE,6C;aAEpE,I;UAFoE,8C;aAGpE,I;UAHoE,8C;aAIpE,G;UAJoE,yC;aAKpE,G;UALoE,y C;aAMPe,G;UANoE,uC;aAOpE,G;UAPoE,sC;;UAQ5D,MAAM,gCAAyB,uCAAoC,SAA7D,C;;K;IAGIB,yD;MA GQ,KAAC,eAAD,C;QAEQ,IADE,OACF,Q;UAHZ,sC;;UAIoB,MAAM,gCAAyB,4EAAqD,OAARd,CAAzB,C;;Q AIIB,QAAM,OAAN,C;eACI,E;YATZ,uC;eAUy,E;YAVZ,yC;eAWY,E;YAXZ,yC;;YAYoB,MAAM,gCAAyB,yD AAKC,OAAIC,CAAzB,C;;K;IC5F9B,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;;MAAA,oC;K;IAW

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BxNA,8C;MhBsDA,wB;QAMkD,OgB1DI,YhB+NjB,eAAW,oBAAL,SAAK,CAAL,iBAAN,CgB/NiB,EhB0DoB,KgB1DpB,C;O;KhBoDtD,C;wFAQA,yB;MD4HA,6B;MCxKA,kD;MDuOJ,0B;MAAA,+B;MC3LI,wB;QAQ6C,O D8LR,eAAW,OC5OI,cAAc,IAAd,ED2KjB,cC7HmB,KD6HT,KAAL,GAAiB,GAAtB,CC3KiB,CakLf,KD0DW,C AAX,C;O;KCtMrC,C;wFASA,yB;MCoHA,6B;MDzKA,kD;MCwOJ,4B;MAAA,iC;MDnLI,wB;QAQ+C,OCsLR,g BAAY,QD7OC,cAAc,IAAd,EC4KjB,cDrHqB,KCqHX,KAAL,GAAiB,KAAtB,CD5KiB,CA4Lb,KCiDY,CAAZ,C; O;KD9LvC,C;wFASA,yB;MA9DA,kD;MA8DA,wB;QAQ2C,OAhES,cAAc,IAAd,EAGEL,KAhEK,C;O;KAwDpD ,C;wFASA,yB;MA+HA,kBAS6D,sB;MAT7D,+B;MgB/LA,oD;MhBgEA,wB;QAQ6C,OgBIES,ehBkMjB,eAAW,o BAAL,SAAK,CAAL,iBAAN,CgBIMiB,EhBkEU,KgBIEV,C;O;KhB0DtD,C;wEAUA,yB;MAAA,6B;MAAA,mB; QAMyC,qBAAK,SAAK,QAAY,C;O;KANzC,C;wEAQA,yB;MAAA,6B;MAAA,mB;QAMyC,qBAAK,SAAK,QA AV,C;O;KANzC,C;gGAQA,yB;MAAA,8C;MAAA,wB;QAE6D,0BAAU,IAAV,EAAGB,KAAhB,C;O;KAF7D,C; wFAIA,yB;MAAA,6B;MAAA,2B;QAOMD,qBAAK,aAAS,QAAd,C;O;KAPnD,C;wFASA,yB;MAAA,6B;MAAA, 2B;QAOMD,qBAAK,cAAU,QAaf,C;O;KAPnD,C;wFASA,yB;MAAA,6B;MAAA,wB;QAEiD,qBAAK,IAAK,KA AL,GAAc,KAAM,KAAzB,C;O;KAFjD,C;SFAGA,yB;MAAA,6B;MAAA,wB;QAEgD,qBAAK,IAAK,KAAL,GA Aa,KAAM,KAAxB,C;O;KAFhD,C;wFAGA,yB;MAAA,6B;MAAA,wB;QAEiD,qBAAK,IAAK,KAAL,GAAc,KA AM,KAAzB,C;O;KAFjD,C;wEAGA,yB;MAAA,6B;MAAA,mB;QAEgC,qBAAU,CAAL,SAAL,C;O;KAFhC,C;8 EAIA,yB;MAAA,0B;MAAA,mB;QAUmC,OAAK,OAL,SAAK,C;O;KAVxC,C;gFAWA,yB;MAAA,4B;MAAA, mB;QAUqC,OAAK,QAAL,SAAK,C;O;KAVIC,C;4EAWA,Y;MASiC,gB;K;8EACjC,yB;MAAA,kBASqD,sB;MA TrD,mB;QASmC,OAAK,oBAAL,SAAK,CAAL,iB;O;KATnD,C;gFAWA,yB;MDwDJ,0B;MAAA,+B;MCxDI,mB; QASqC,OD0DA,eAAW,OC1DX,SD0DW,CAAX,C;O;KCnErC,C;kFAUA,yB;MC+CJ,4B;MAAA,iC;MD/CI,mB; QASuC,OCiDA,gBAAY,QDjDZ,SCiDY,CAAZ,C;O;KD1DvC,C;8EAUA,Y;MAEmC,W;K;gFACnC,yB;MAAA,k BAS6D,sB;MAT7D,+B;MAAA,mB;QASqC,sBAAW,oBAAL,SAAK,CAAL,iBAAN,C;O;KATrC,C;gFAWA,yB; MASA,gD;MATA,mB;QAQqC,OAoe,aAAa,SAAb,C;O;KAFvC,C;kFASA,yB;MAAA,gD;MAAA,mB;QAMuC,o BAAa,SAAb,C;O;KANvC,C;8BAQA,Y;MAAyC,OARDD,oBAAL,SAAK,CAAL,iBAQDe,W;K;,,,;8BAhWtD,Y;M AAA,c;MAG2D,qD;MAH3D,a;K;4BAAA,iB;MAAA,2IAG2D,oCAH3D,G;K;sEAoWA,yB;MAAA,6B;MAAA,4B ;QAWwC,qBAAU,SAAV,C;O;KAXxC,C;wEAYA,yB;MAAA,6B;MAAA,4B;QAWyC,qBAAU,SAAV,C;O;KAX zC,C;wEAYA,yB;MAAA,6B;MAAA,4B;QAUuC,qBAAK,SAAL,C;O;KAVvC,C;wEAWA,yB;MAAA,6B;MAAA ,4B;QAWwC,qBAAK,SAAK,QAAY,C;O;KAXxC,C;uEAaA,yB;MAAA,gD;MAAA,4B;QASyC,oBAAkB,SAAlB, C;O;KATzC,C;wEAUA,yB;MAAA,gD;MAAA,4B;QAS0C,oBAAa,SAAb,C;O;KAT1C,C;Igc3ZA,4B;MACqB,sB ;K;sCAKjB,iB;MAM4C,OhCuXT,SgCvXS,aAAQ,KAAR,ChCuXT,C;K;sCgCrXnC,wB;MAOI,aAAQ,KAAR,IAA iB,KhCyQY,K;K;iFgCrQH,Y;MAAQ,OAAA,YAAQ,O;K;mCAE9C,Y;MAC6E,8BAAS,YAAT,C;K;IAGvD,mC; MAAgC,uB;MAA/B,oB;MACnB,eAAoB,C;K;2CACpB,Y;MAAyB,sBAAQ,YAAM,O;K;4CACvC,Y;MAAwD,Q; MAA9B,IAAI,eAAQ,YAAM,OAAIB,C;QAAA,OhCiWK,SgCjWmB,aAAM,mBAAN,EAAM,2BAAN,OhCiWnB, C;;QgCjWgD,MAAM,2BAAuB,YAAM,WAA7B,C;K;;yCAGzF,mB;MAIS,Q;MAAL,IAAI,eAAC,0EAAD,OAAJ, C;QAAgC,OAAO,K;MAEvC,OAAe,WAAR,YAAQ,EAAS,OhCmPK,KgCnPd,C;K;8CAGnB,oB;MACY,Q;MAA 2B,gBAA3B,gE;MAA2B,c;;Qf0nDvB,U;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,I;UAAP,e;;QACrB, 6B;QAAhB,OAAgB,gBAAhB,C;UAAgB,2B;Ue1nD6B,2Bf0nDR,Oe1nDQ,O;UAAA,W;YAAsB,oBAAR,YAAQ, Ef0nD9B,OjB34CJ,KgC/OkC,C;;Uf0nD7C,IAAI,OAAJ,C;YAAyB,aAAO,K;YAAP,e;;;QAC/C,aAAO,I;;;Me3nDH ,iB;K;kCAGJ,Y;MAAKC,OAAA,IAAK,QAAQ,OAAb,KAAqB,C;K;;IA/CvD,qC;MAAA,mD;MACgC,sBAAK,eA AS,IAAT,CAAL,C;MADhC,Y;K;;;mCAPJ,Y;MAAA,OAKqB,oDALrB,M;K;mCAAA,Y;MAAA,c;MAKqB,wD; MALrB,a;K;;iCAAA,iB;MAAA,2IAKqB,0CALrB,G;K;8EAyDA,yB;MAAA,uC;MAWoc,wC;QAAA,wB;UAAW, OAAA,aAAK,KAAL,ChC8NV,K;S;O;MgCzOrC,6B;QAWI,OAAO,mBAAU,gCAAS,IAAT,GAAe,sBAAf,CAAV ,C;O;KAXX,C;gFAcA,oB;MAGkE,e;K;I6LnE5C,wC;MASBiB,iC;MATBsD,2BAAgB,KAAhB,EAAuB,YAAvB,E AAqC,CAArC,C;K;kFAC7B,Y;MAAQ,iB;K;yFACD,Y;MAAQ,gB;K;2CAExC,iB;MAA8C,W7NwCoB,Y6NxCP B,U7NwCqC,KAAjB,E6NxCX,K7NwCwC,KAA7B,C6NxCPB,K;MAAA,S;QAAkB,O7NwCE,Y6NxCF,K7NwC mB,KAAjB,E6NxCO,S7NwCsB,KAA7B,C6NxCF,K;;MAAIB,W;K;kCAE9C,Y;MAKkC,O7NiCgC,Y6NjChC,U7 NiCiD,KAAjB,E6NjCxB,S7NiCqD,KAA7B,C6NjChC,I;K;iCAEIC,iB;MAEY,UAAwB,M;MADhC,2CAAuB,kBA Aa,KAAM,UAAAnB,KACf,2CAAS,KAAM,MAAf,cAAwB,6CAAQ,KAAM,KAAAd,QAAxB,CADe,CAAvB,C;K;m CAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,MAAK,U7NyQA,K6NzQL,QAAqB,S7NyQhB,K6NzQL,I;K;

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A0B,4BAAK,UAA/B,C;K;;IAFIC,2C;MAAA,0C;QAAA,yB;;MAAA,mC;K;;IAYJ,oD;MA4CI,uC;MatCI,IAAI,S  
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EAAzB,C;MAG5C,aAGyB,K;MAEzB,YAGwB,4BAA0B,KAA1B,EAAiC,YAAjC,EAA+C,IAA/C,C;MAExB,YA  
GuB,I;K;yCAEvB,Y;MAAgD,mCAAwB,UAAxB,EAA+B,SAA/B,EAAqC,SAArC,C;K;wCAEhD,Y;MAMqC,OA  
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K;IAEHF,qC;MAAA,yC;K;kEACI,sC;MAQ2F,2BAAgB,UAAhB,EAA4B,QAA5B,EAA5C,IAAtC,C;K;;IAT/F,iD;  
MAAA,gD;QAAA,+B;;MAAA,yC;K;;IAoBiC,oD;MAAuC,uB;MACxE,sBAA2B,I;MAC3B,iBAAmC,OAAO,CA  
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DF,K7NxDMB,KAAjB,E6NwDO,I7NxDsB,KAA7B,C6NwDF,K;MACHe,c7N2RmC,S6N3RhB,I7N2RgB,C;M6N  
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II,Y;MAA4B,uB;K;;IAMhC,0B;K;oCAII,Y;MAA4B,wB;K;;IAMhC,wB;K;kCAII,Y;MAA4B,sB;K;;IAMhC,yB;K;  
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C,iBAGoC,c;MAEpC,kBAGmC,C;MAEnC,iBAGkC,E;K;;IANbTc,uC;MAAA,sC;QAAA,qB;;MAAA,+B;K;sGAs  
BA,yB;MjBqRA,WAS6D,wB;MAT7D,+B;MiB7PA,gD;MAxBA,wB;QAM0D,OAYBS,aAAa,IAAK,KAAIB,EAA  
8B,CjB+P5D,eAAW,oBiBxRyB,KjBwR9B,KAAK,CAAL,UAAAN,CiB/P4D,MAA9B,C;O;KA/BnE,C;sGAQA,yB;  
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,sB;MAT7D,+B;MgBjRA,gD;MARA,wB;QAMyD,OASU,aAAa,IAAK,KAAIB,EAA8B,ChBmR5D,eAAW,oBgB5  
RwB,KhB4R7B,KAAK,CAAL,iBAAN,CgBnR4D,MAA9B,C;O;KafnE,C;kGAQA,yB;MAAA,gD;MAAA,wB;Q  
AOmE,oBAaA,IAAK,KAAIB,EAAwB,KAAM,KAA9B,C;O;KAPnE,C;4FASA,yB;MjBoPA,WAS6D,wB;MAT7D  
,+B;MiBpPA,wB;QAEuD,OASA,eAAM,IAAK,KAAK,KAAW,CjBkP7C,eAAW,oBiB3PiB,KjB2PtB,KAAK,CAA  
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wD,OAMD,eAAM,IAAK,KAAK,KAAW,CfmP7C,eAAW,oBezPkB,KfyPvB,KAAK,CAAL,YAAN,CenP6C,MA  
AX,CAAhB,C;O;KARvD,C;4FAGA,yB;MhBkQA,kBAS6D,sB;MAT7D,+B;MgBIQA,wB;QAEsD,OAGC,eAAM,  
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C;O;KALvD,C;4FAGA,yB;MAAA,+B;MAAA,wB;QAEuD,sBAAM,IAAK,KAAK,KAAK,KAAM,KAAX,CAAH  
B,C;O;KAFvD,C;8FAIA,yB;MjBuOA,WAS6D,wB;MAT7D,+B;MiBvOA,wB;QAEwD,OASA,eAAM,IAAK,KAA  
K,UAAAY,CjBqO/C,eAAW,oBiB9OmB,KjB8OxB,KAAK,CAAL,UAAAN,CiBrO+C,MAAZ,CAAhB,C;O;KAXxD,  
C;8FAGA,yB;MfqOA,aAS6D,0B;MAT7D,+B;MerOA,wB;QAEyD,OAMD,eAAM,IAAK,KAAK,UAAAY,CfsO/C,e  
AAW,oBe5OoB,Kf4OzB,KAAK,CAAL,YAAN,CetO+C,MAAZ,CAAhB,C;O;KARxD,C;8FAGA,yB;MhBqPA,kB  
AS6D,sB;MAT7D,+B;MgBrPA,wB;QAEuD,OAGC,eAAM,IAAK,KAAK,UAAAY,ChByP/C,eAAW,oBgB5PkB,Kh  
B4PvB,KAAK,CAAL,iBAAN,CgBzP+C,MAAZ,CAAhB,C;O;KALxD,C;8FAGA,yB;MAAA,+B;MAAA,wB;QA  
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AT7D,+B;MiB1NA,wB;QAEwD,OASA,eAAM,IAAK,KAAK,UAAAY,CjBwN/C,eAAW,oBiBjOmB,KjBiOxB,KA  
AK,CAAL,UAAAN,CiBxN+C,MAAZ,CAAhB,C;O;KAXxD,C;8FAGA,yB;MfwNA,aAS6D,0B;MAT7D,+B;MexN  
A,wB;QAEyD,OAMD,eAAM,IAAK,KAAK,UAAAY,CfyN/C,eAAW,oBe/NoB,Kf+NzB,KAAK,CAAL,YAAN,Cez  
N+C,MAAZ,CAAhB,C;O;KARxD,C;8FAGA,yB;MhBwOA,kBAS6D,sB;MAT7D,+B;MgBxOA,wB;QAEuD,OA  
GC,eAAM,IAAK,KAAK,UAAAY,ChB4O/C,eAAW,oBgB/OkB,KhB+OvB,KAAK,CAAL,iBAAN,CgB5O+C,MAA  
Z,CAAhB,C;O;KALxD,C;8FAGA,yB;MAAA,+B;MAAA,wB;QAEwD,sBAAM,IAAK,KAAK,UAAAM,KAAM,K  
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jB,C;;QiBhX+C,MAAM,2BAAuB,YAAM,WAA7B,C;K;;0CAG3F,mB;MAIS,Q;MAAL,IAAI,eAAC,0EAAD,QA  
AJ,C;QAAiC,OAAO,K;MAExC,OAAe,WAAR,YAAQ,EAAS,OjB8PO,KiB9PhB,C;K;+CAGnB,oB;MACY,Q;MA  
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CrB,6B;QAAhB,OAAgB,gBAAhB,C;UAAgB,2B;UgB1nD6B,2BhB0nDR,OgB1nDQ,Q;UAAA,W;YAAuB,oBAA  
R,YAAQ,EhB0nD/B,ODh4CF,KiB1PiC,C;;UhB0nD9C,IAAI,OAAJ,C;YAAyB,aAAO,K;YAAP,e;;;QAC/C,aAAO  
,I;;MgB3nDH,iB;K;mCAGJ,Y;MAAkC,OAAA,IAAK,QAAQ,OAAb,KAAqB,C;K;;IA/CvD,sC;MAAA,oD;MAC  
gC,uBAAK,iBAAU,IAAV,CAAL,C;MADhC,Y;K;;;oCAPJ,Y;MAAA,OAKqB,qDALrB,M;K;oCAAA,Y;MAAA,  
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A,wB;UAAW,OAAA,aAAK,KAAL,CjByOV,K;S;O;MiBpPvC,6B;QAWI,OAAO,oBAAW,kBAAU,IAAV,EAAg  
B,uBAAhB,CAAX,C;O;KAXX,C;kFACa,oB;MAGqE,e;K;I8LnE9C,2C;MAAsBnB,kC;MATByD,4BAAiB,KAAjB,  
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pB,U/MgDsC,KAAIB,E+MhDX,K/MgDyC,KAA9B,C+MhDpB,K;MAAA,S;QAAkB,O/MgDE,a+MhDF,K/MgDo  
B,KAAIB,E+MhDO,S/MgDuB,KAA9B,C+MhDF,K;;MAAIB,W;K;qCAE/C,Y;MAKkC,O/MyCiC,a+MzCjC,U/M  
yCmD,KAAIB,E+MzCzB,S/MyCuD,KAA9B,C+MzCjC,I;K;oCAEIC,iB;MAEY,UAAwB,M;MADhC,8CAAwB,k  
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,C;K;sCAGJ,Y;MACI,OAAI,cAAJ,GAAe,EAAf,GAAwB,M/M0QK,CARckB,U+MrOjB,U/MqO4B,KAAL,KAAo  
B,CAVzB,U+M3NP,U/M2Na,yB+M3NH,E/M2NG,CAAN,CAUyB,MAApB,CAAN,CAqCIB,MAAK,Q+M1QV,Q  
/M0QK,CARckB,U+MrOoB,S/MqOT,KAAL,KAAoB,CAVzB,U+M3N6B,S/M2NvB,yB+M3NgC,E/M2NhC,CAA  
N,CAUyB,MAApB,CAAN,CAqCIB,MAAK,Q+M1QV,I;K;sCAE5B,Y;MAAKC,OAAE,UAAF,qBAAU,S;K;IAE5  
C,gC;MAAA,oC;MACI,aAC+B,iBAAW,6BAAM,UAAjB,EAA4B,6BAAM,UAAIC,C;K;;IAFnC,4C;MAAA,2C;  
QAAA,0B;;MAAA,oC;K;;IAYJ,qD;MA4CI,wC;MATCI,IAAI,gBAAJ,C;QAAwB,MAAa,gCAAYB,wBAAzB,C;M  
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B,EAAiC,YAAjC,EAA+C,IAA/C,C;MAEZB,YAGwB,I;K;OCAExB,Y;MAAiD,oCAAYB,UAAzB,EAAgC,SAAhC  
,EAAcS,SAATC,C;K;yCAEjD,Y;MAMqC,OAAI,uBAAO,CAAX,G/Mf8B,a+MehB,U/MfkC,KAAIB,E+MeR,S/Mf  
sC,KAA9B,C+MehB,IAAd,G/Mf8B,a+MeE,U/MfgB,KAAIB,E+MeU,S/MfoB,KAA9B,C+MeE,I;K;wCAErE,iB;  
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B+MnKG,E/MmKH,CAAN,CAUyB,MAApB,CAAN,CAqCIB,MAAK,Q+MINJ,Q/MkND,CARckB,U+M7K0B,S/  
M6Kf,KAAL,KAAoB,CAVzB,U+MnKmC,S/MmK7B,yB+MnKsC,E/MmKtC,CAAN,CAUyB,MAApB,CAAN,C  
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C,Y;MACI,YAAy,W;MACZ,IAAI,6BAAS,mBAAT,QAAJ,C;QACI,IAAI,CAAC,cAAL,C;UAAc,MAAa,6B;QAC  
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D,OAAO,K;K;;wEC7Hf,yB;MAAA,8C;MAAA,uB;QAOI,OAAO,MAAM,CAAN,EAAS,CAAT,C;O;KAPX,C;wE  
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6B,C;O;K+G9CIE,C;sGAQA,yB;MAAA,kE;MAAA,4B;QAMsD,OAAQ,sBjO+QzB,ciO/QyB,C;O;KAN9D,C;8FA  
QA,yB;MAAA,0D;MjOwWA,6B;MiOxWA,4B;QAOmD,OjO2WZ,ciO3WoB,kBjOsQtB,ciOtQsB,CjO2WpB,C;O;  
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N4MID,cnN5MgF,KAA9B,CmN4M3D,IAAJ,C;UACI,IAAI,+CAAkB,gBAAIB,QAAJ,C;YACI,iBnN1J0C,YmN0J  
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AA9B,CmNgNnD,IAAJ,C;cACI,OAAO,I;YAGX,OAAO,I;QAIf,SnNjLoD,UmNiLpD,MnNjL+D,KAAK,UmNi  
L1D,MnNjLsE,KAAZ,CAAhB,C;QmNmLpD,mBAAmB,M;QACnB,SnN9MmD,UmN8MnD,MnN9M8D,KAAK,  
KAAW,ChBsQ7C,UAAW,oBAAL,CAYDR,SmOjHrB,KnOiHqB,CAzDQ,MAAK,CAAL,iBAAN,CgBtQ6C,MAA  
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AJ,C;UAA2B,OAAO,I;MAGtC,OAAO,M;K;I3N9RX,6B;MACkD,OAAuB,0BAAtB,KAAO,WAAe,EAAU,KAA  
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Q1SS,ER0Sd,KAAK,CAAL,iBQ1Sc,KR0ST,oBQ1SuB,ER0S5B,KAAK,CAAL,iBQ1Sc,CRiZH,QAAV,C;K;IQhZ  
xC,+B;MACuD,OR+Yf,SAvGI,oBQxSY,ERwSjB,KAAK,CAAL,iBQxSiB,QRwSZ,oBQxS0B,ERwS/B,KAAK,C  
AAL,iBQxSiB,CR+YN,QAAV,C;K;IQ1YxC,6B;MAEI,eAAe,EQkSoB,K;MRjSnC,cAAc,EQiSqB,K;MRhSnC,IA  
AI,qBAAU,CAAd,C;QACI,OQ6C+D,aR7CpD,EQ6CsE,KAAIB,ER7C/C,EQ6C6E,KAA9B,CR7CpD,IAAJ,GAAa,  
aAAb,GAA2B,a;MAItC,IAAI,uBAAY,CAAhB,C;QACI,OAAO,UAAM,aAAW,OAAX,CAAN,C;MAIX,eAAiB,  
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AHX,eAAe,EQ8QoB,K;MR7QnC,cAAc,EQ6QqB,K;MR5QnC,IAAI,qBAAU,CAAd,C;QACW,IQyBwD,aRzBpD,  
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AAW,OAAX,CAAN,C;MAIX,eAAiB,4BAAc,CAAd,CAAD,KAAoB,OAAPB,CAAD,WAAkC,CAAIC,C;MACf,  
UAAU,kBAAW,kBAAW,OAAX,CAAX,C;MACV,OAAO,UAAM,aQUsD,aAAkB,CRV9D,UAAM,GAAN,CQU8  
D,MAAIB,EAA8B,CRV5D,UAAM,OAAN,CQU4D,MAA9B,CRV5C,KAAJ,GAAC,CAAIC,KAAN,CAAN,C;K;  
IAGX,yB;MAEI,IAAE,QAAF,CAAE,CAAF,C;QADyC,OAC5B,W;QACb,SRwSuC,aQxSIC,4BAAK,URwS0C,K  
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C,OAGP,4BAAK,U;eACvC,SAAK,UAAL,C;YAJyC,ORkVN,SQ9UX,YAAF,CAAE,CR8UW,C;YQIVM,ORgBY



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# 1.297 kafka-schema-serializer 5.5.5

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

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

```
<parent>
 <groupId>io.confluent</groupId>
 <artifactId>kafka-schema-registry-parent</artifactId>
 <version>5.5.5</version>
</parent>
```

```
<licenses>
 <license>
 <name>Apache License 2.0</name>
 <url>http://www.apache.org/licenses/LICENSE-2.0.html</url>
 <distribution>repo</distribution>
 </license>
</licenses>
```

```
<artifactId>kafka-schema-serializer</artifactId>
<packaging>jar</packaging>
<name>kafka-schema-serializer</name>
```

```
<dependencies>
 <dependency>
 <groupId>org.apache.kafka</groupId>
 <artifactId>kafka_${kafka.scala.version}</artifactId>
 <scope>provided</scope>
 </dependency>
 <dependency>
 <groupId>io.confluent</groupId>
 <artifactId>kafka-schema-registry-client</artifactId>
 </dependency>
 <dependency>
 <groupId>io.confluent</groupId>
 <artifactId>common-config</artifactId>
 </dependency>
```

```
<dependency>
 <groupId>junit</groupId>
 <artifactId>junit</artifactId>
```

```
<scope>test</scope>
</dependency>
</dependencies>
</project>
```

Found in path(s):

```
* /opt/cola/permits/1341639782_1654785878.0524044/0/kafka-schema-serializer-5-5-5-jar/META-INF/maven/io.confluent/kafka-schema-serializer/pom.xml
```

## 1.298 resilience4j 0.13.1

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 *
 *
 */
```

Found in path(s):

```
* /opt/cola/permits/1274699229_1654840286.013314/0/resilience4j-core-0-13-1-sources-jar/io/github/resilience4j/core/Event.java
* /opt/cola/permits/1274699229_1654840286.013314/0/resilience4j-core-0-13-1-sources-jar/io/github/resilience4j/core/EventProcessor.java
* /opt/cola/permits/1274699229_1654840286.013314/0/resilience4j-core-0-13-1-sources-jar/io/github/resilience4j/core/EventConsumer.java
* /opt/cola/permits/1274699229_1654840286.013314/0/resilience4j-core-0-13-1-sources-jar/io/github/resilience4j/core/EventPublisher.java
* /opt/cola/permits/1274699229_1654840286.013314/0/resilience4j-core-0-13-1-sources-jar/io/github/resilience4j/core/StopWatch.java
```

# 1.299 jackson-bom 2.14.0

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## 1.300 asm-tree 9.1

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Manifest-Version: 1.0

Bundle-DocURL: <http://asm.ow2.org>

Bundle-License: BSD-3-Clause;link=<https://asm.ow2.io/LICENSE.txt>

Bundle-ManifestVersion: 2

Bundle-Name: org.objectweb.asm.tree

Bundle-RequiredExecutionEnvironment: J2SE-1.5

Bundle-SymbolicName: org.objectweb.asm.tree

Bundle-Version: 9.1.0

Export-Package: org.objectweb.asm.tree;version="9.1";uses:="org.object  
web.asm"

Implementation-Title: Tree API of ASM, a very small and fast Java byte  
code manipulation framework

Implementation-Version: 9.1

Import-Package: org.objectweb.asm;version="[9.1,10)"

Module-Requires: org.objectweb.asm;transitive=true

Found in path(s):

\* /opt/cola/permits/1183890441\_1627493647.83/0/asm-tree-9-1-jar/META-INF/MANIFEST.MF

## 1.301 io-grpc-grpc-okhttp 1.46.0

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## 1.302 jvm-integration-for-metrics 4.1.11

### 1.302.1 Available under license :

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Manifest-Version: 1.0

Build-Jdk-Spec: 1.8

Bundle-Description: A set of classes which allow you to monitor critical aspects of your Java Virtual Machine using Metrics.

Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: JVM Integration for Metrics

Bundle-SymbolicName: io.dropwizard.metrics.jvm

Bundle-Version: 4.1.11

Created-By: Apache Maven Bundle Plugin

Export-Package: com.codahale.metrics.jvm;uses:="com.codahale.metrics,javax.management";version="4.1.11"

Implementation-Title: JVM Integration for Metrics

Implementation-Version: 4.1.11

Import-Package: com.codahale.metrics;version="[4.1,5)",com.sun.management;resolution:=optional,javax.management,org.slf4j;version="[1.6.0,2.0.0)"

Private-Package: com.codahale.metrics.jvm

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"

Tool: Bnd-5.1.1.202006162103

Found in path(s):

\* /opt/cola/permits/1341130489\_1654769391.4900641/0/metrics-jvm-4-1-11-jar/META-INF/MANIFEST.MF

# 1.303 hk2-module-of-hk2-itself 3.0.2

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# 1.304 junit-platform-junit-platform-engine

## 1.8.2

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# 1.305 rxjava 2.2.8

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/**
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*/
```

Found in path(s):

```
* /opt/cola/permits/1354022329_1656537238.0986433/0/rxjava-2-2-8-sources-1-
jar/io/reactivex/schedulers/SchedulerRunnableIntrospection.java
```

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*/
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```
/*
```

```
* Original License: https://github.com/JCTools/JCTools/blob/master/LICENSE
* Original location: https://github.com/JCTools/JCTools/blob/master/jctools-
core/src/main/java/org/jctools/util/Pow2.java
*/
```

Found in path(s):

```
* /opt/cola/permits/1354022329_1656537238.0986433/0/rxjava-2-2-8-sources-1-
jar/io/reactivex/internal/util/Pow2.java
```

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Found in path(s):

\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/disposables/package-info.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/schedulers/TrampolineScheduler.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/observables/package-info.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/observers/package-info.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/schedulers/IOScheduler.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/observable/ObservableJoin.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/processors/package-info.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/flowable/FlowableGroupJoin.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/functions/package-info.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/exceptions/CompositeException.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/subjects/package-info.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/schedulers/package-info.java  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/flowable/FlowablePublishMulticast.java  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/schedulers/SchedulerPoolFactory.java

\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/observable/ObservableGroupJoin.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/schedulers/ComputationScheduler.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/BackpressureOverflowStrategy.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/schedulers/NewThreadScheduler.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/package-info.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/parallel/package-info.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/plugins/package-info.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/subscribers/package-info.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/annotations/package-info.java  
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Found in path(s):

\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/queue/SpSCArrayQueue.java

\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/annotations/Beta.java

\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/parallel/ParallelMap.java

\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/observers/FutureObserver.java

\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/observable/ObservableTimeInterval.java

\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/observers/ResourceCompletableObserver.java

\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/processes/AsyncProcessor.java

\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/flowable/FlowableSwitchMap.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/flowable/FlowableElementAt.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/observable/ObservableReduceWithSingle.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/observable/ObservableFlatMapCompletable.java  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/observable/ObservableScan.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/observable/ObservableEmpty.java  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/CompletableEmitter.java  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/observable/ObservableSwitchMap.java  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
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jar/io/reactivex/internal/operators/flowable/FlowableRetryWhen.java  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
jar/io/reactivex/internal/operators/flowable/FlowableTakeLastOne.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
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jar/io/reactivex/FlowableConverter.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
jar/io/reactivex/annotations/BackpressureKind.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
jar/io/reactivex/internal/operators/observable/ObservableLift.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-

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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
jar/io/reactivex/internal/operators/flowable/FlowableTimer.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
jar/io/reactivex/internal/operators/single/SingleDoFinally.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/MaybeSource.java  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/completable/CompletableFromCallable.java  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/mixed/FlowableSwitchMapMaybe.java  
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\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-  
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jar/io/reactivex/ObservableOnSubscribe.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/maybe/MaybeFromRunnable.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/observers/BasicQueueDisposable.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/observers/DisposableLambdaObserver.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/observers/LambdaObserver.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/completable/CompletableTimeout.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/observable/ObservableNever.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/fuseable/SimpleQueue.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/observable/ObservableFromCallable.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/flowable/FlowableIgnoreElementsCompletable.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/maybe/MaybeIsEmpty.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/single/SingleMaterialize.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/operators/flowable/FlowableThrottleLatest.java  
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Found in path(s):

\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/schedulers/InstantPeriodicTask.java  
\* /opt/cola/permits/1354022329\_1656537238.0986433/0/rxjava-2-2-8-sources-1-jar/io/reactivex/internal/schedulers/AbstractDirectTask.java

```
* /opt/cola/permits/1354022329_1656537238.0986433/0/rxjava-2-2-8-sources-1-
jar/io/reactivex/internal/schedulers/ScheduledDirectPeriodicTask.java
* /opt/cola/permits/1354022329_1656537238.0986433/0/rxjava-2-2-8-sources-1-
jar/io/reactivex/internal/schedulers/SchedulerWhen.java
* /opt/cola/permits/1354022329_1656537238.0986433/0/rxjava-2-2-8-sources-1-
jar/io/reactivex/internal/schedulers/ScheduledDirectTask.java
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```
*/
```

Found in path(s):

```
* /opt/cola/permits/1354022329_1656537238.0986433/0/rxjava-2-2-8-sources-1-
jar/io/reactivex/internal/operators/flowable/FlowableOnBackpressureError.java
```

# 1.306 io-grpc-grpc-context 1.46.0

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# 1.307 wire-multiplatform-runtime- (experimental) 3.6.0

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## 1.308 xml-path 5.1.0

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*/
```

Found in path(s):

```
* /opt/cola/permits/1473601718_1668496120.7804966/0/xml-path-5-1-0-sources-
jar/io/restassured/internal/path/xml/NodeImpl.java
* /opt/cola/permits/1473601718_1668496120.7804966/0/xml-path-5-1-0-sources-
```

jar/io/restassured/internal/path/xml/GroovyNodeSerializer.groovy  
\* /opt/cola/permits/1473601718\_1668496120.7804966/0/xml-path-5-1-0-sources-  
jar/io/restassured/internal/path/xml/XMLAssertion.groovy  
\* /opt/cola/permits/1473601718\_1668496120.7804966/0/xml-path-5-1-0-sources-  
jar/io/restassured/internal/path/xml/XmlRenderer.groovy  
\* /opt/cola/permits/1473601718\_1668496120.7804966/0/xml-path-5-1-0-sources-  
jar/io/restassured/path/xml/element/Node.java  
\* /opt/cola/permits/1473601718\_1668496120.7804966/0/xml-path-5-1-0-sources-  
jar/io/restassured/path/xml/mapper/factory/DefaultJakartaEEOBJECTMapperFactory.java  
\* /opt/cola/permits/1473601718\_1668496120.7804966/0/xml-path-5-1-0-sources-  
jar/io/restassured/internal/path/xml/NodeBase.groovy  
\* /opt/cola/permits/1473601718\_1668496120.7804966/0/xml-path-5-1-0-sources-  
jar/io/restassured/path/xml/mapper/factory/DefaultJAXBOBJECTMapperFactory.java  
\* /opt/cola/permits/1473601718\_1668496120.7804966/0/xml-path-5-1-0-sources-  
jar/io/restassured/internal/path/xml/NodeChildrenImpl.java  
\* /opt/cola/permits/1473601718\_1668496120.7804966/0/xml-path-5-1-0-sources-  
jar/io/restassured/path/xml/mapping/XmlPathObjectDeserializer.java  
\* /opt/cola/permits/1473601718\_1668496120.7804966/0/xml-path-5-1-0-sources-  
jar/io/restassured/path/xml/config/XmlParserType.java  
\* /opt/cola/permits/1473601718\_1668496120.7804966/0/xml-path-5-1-0-sources-  
jar/io/restassured/path/xml/exception/XmlPathException.java  
\* /opt/cola/permits/1473601718\_1668496120.7804966/0/xml-path-5-1-0-sources-  
jar/io/restassured/path/xml/mapper/factory/JakartaEEOBJECTMapperFactory.java  
\* /opt/cola/permits/1473601718\_1668496120.7804966/0/xml-path-5-1-0-sources-  
jar/io/restassured/internal/path/xml/XmlPrettifier.groovy  
\* /opt/cola/permits/1473601718\_1668496120.7804966/0/xml-path-5-1-0-sources-  
jar/io/restassured/path/xml/element/PathElement.java  
\* /opt/cola/permits/1473601718\_1668496120.7804966/0/xml-path-5-1-0-sources-  
jar/io/restassured/path/xml/XmlPath.java  
\* /opt/cola/permits/1473601718\_1668496120.7804966/0/xml-path-5-1-0-sources-  
jar/io/restassured/path/xml/mapper/factory/JAXBOBJECTMapperFactory.java  
\* /opt/cola/permits/1473601718\_1668496120.7804966/0/xml-path-5-1-0-sources-  
jar/io/restassured/internal/path/xml/mapping/XmlPathJakartaEEOBJECTDeserializer.groovy  
\* /opt/cola/permits/1473601718\_1668496120.7804966/0/xml-path-5-1-0-sources-  
jar/io/restassured/internal/path/xml/mapping/XmlObjectDeserializer.groovy  
\* /opt/cola/permits/1473601718\_1668496120.7804966/0/xml-path-5-1-0-sources-  
jar/io/restassured/path/xml/config/XmlPathConfig.java  
\* /opt/cola/permits/1473601718\_1668496120.7804966/0/xml-path-5-1-0-sources-  
jar/io/restassured/internal/path/xml/mapping/XmlPathJaxbObjectDeserializer.groovy  
\* /opt/cola/permits/1473601718\_1668496120.7804966/0/xml-path-5-1-0-sources-  
jar/io/restassured/path/xml/element/NodeChildren.java

## 1.309 scala-collection-compat 2.3.0

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```
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```

Found in path(s):

```
* /opt/cola/permits/1183891771_1658981142.4749572/0/scala-collection-compat-2-13-2-3-0-sources-jar/scala/collection/compat/package.scala
* /opt/cola/permits/1183891771_1658981142.4749572/0/scala-collection-compat-2-13-2-3-0-sources-jar/scala/collection/compat/immutable/package.scala
```

## 1.310 netty-project 4.1.77.Final

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-->
```

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```
* /opt/cola/permits/1337097930_1654205407.148156/0/netty-codec-http-4-1-77-final-jar/META-INF/maven/io.netty/netty-codec-http/pom.xml
```

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Manifest-Version: 1.0  
Implementation-Title: Netty/Codec/HTTP  
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.  
Automatic-Module-Name: io.netty.codec.http  
Bundle-License: <https://www.apache.org/licenses/LICENSE-2.0>  
Bundle-SymbolicName: io.netty.codec-http  
Implementation-Version: 4.1.77.Final  
Built-By: norman  
Bnd-LastModified: 1651822967697  
Bundle-ManifestVersion: 2  
Implementation-Vendor-Id: io.netty  
Bundle-DocURL: <https://netty.io/>  
Bundle-Vendor: The Netty Project  
Import-Package: com.aayushatharva.brotli4j.encoder;resolution:=optional,com.jcraft.jzlib;resolution:=optional,io.netty.buffer;version="[4.1,5)",io.netty.channel;version="[4.1,5)",io.netty.channel.embedded;version="[4.1,5)",io.netty.handler.codec,io.netty.handler.codec.base64;version="[4.1,5)",io.netty.handler.codec.compression;version="[4.1,5)",io.netty.handler.ssl;version="[4.1,5)",io.netty.handler.stream;version="[4.1,5)",io.netty.util;version="[4.1,5)",io.netty.util.concurrent;version="[4.1,5)",io.netty.util.internal;version="[4.1,5)",io.netty.util.internal.logging;version="[4.1,5)",sun.nio.ch;resolution:=optional,org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"  
Tool: Bnd-2.4.1.201501161923  
Implementation-Vendor: The Netty Project  
Export-Package: io.netty.handler.codec.http;uses:="io.netty.buffer,io.netty.channel,io.netty.channel.embedded,io.netty.handler.codec,io.netty.handler.codec.compression,io.netty.handler.codec.http.cookie,io.netty.handler.stream,io.netty.util";version="4.1.77",io.netty.handler.codec.http.cookie;version="4.1.77",io.netty.handler.codec.http.cors;uses:="io.netty.channel,io.netty.handler.codec.http";version="4.1.77",io.netty.handler.codec.http.multipart;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http,io.netty.handler.stream,io.netty.util";version="4.1.77",io.netty.handler.codec.http.websocketx;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http,io.netty.handler.stream,io.netty.util,io.netty.util.internal.logging";version="4.1.77",io.netty.handler.codec.http.websocketx.extensions;uses:="io.netty.channel,io.netty.handler.codec,io.netty.handler.codec.http.websocketx";version="4.1.77",io.netty.handler.codec.http.websocketx.extensions.compression;uses:="io.netty.channel,io.netty.handler.codec.http.websocketx.extensions";version="4.1.77",io.netty.handler.codec.rtsp;uses:="io.netty.buffer,io.netty.channel,io.netty.handler.codec.http,io.netty.util";version="4.1.77",io.netty.handler.codec.spdy;uses:="io.netty.buffer,io.netty.

channel,io.netty.handler.codec,io.netty.handler.codec.http,io.netty.u  
til";version="4.1.77"  
Bundle-Name: Netty/Codec/HTTP  
Bundle-Version: 4.1.77.Final  
Created-By: Apache Maven Bundle Plugin  
Build-Jdk: 1.8.0\_252  
Implementation-URL: https://netty.io/netty-codec-http/

Found in path(s):

\* /opt/cola/permits/1337097930\_1654205407.148156/0/netty-codec-http-4-1-77-final-jar/META-  
INF/MANIFEST.MF

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\* /opt/cola/permits/1337097930\_1654205407.148156/0/netty-codec-http-4-1-77-final-jar/META-INF/native-  
image/io.netty.codec.http.native-image.properties

## 1.311 rocksdb-jni 6.7.3

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\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-  
jar/org/rocksdb/StringAppendOperator.java  
\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-  
jar/org/rocksdb/MergeOperator.java

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\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-  
jar/org/rocksdb/MutableDBOptionsInterface.java  
\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-  
jar/org/rocksdb/CompactionStopStyle.java  
\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-  
jar/org/rocksdb/MutableOptionValue.java

\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/SizeApproximationFlag.java  
\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/HashLinkedListMemTableConfig.java  
\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/NativeLibraryLoader.java  
\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/SkipListMemTableConfig.java  
\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/HashSkipListMemTableConfig.java  
\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/TableProperties.java  
\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/InfoLogLevel.java  
\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/MutableOptionKey.java  
\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/util/Environment.java.orig  
\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/util/Environment.java  
\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/VectorMemTableConfig.java  
\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/TransactionLogIterator.java  
\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/TableFilter.java  
\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/ComparatorOptions.java  
\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/AbstractTableFilter.java  
\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/AbstractMutableOptions.java  
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- \* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/RocksMutableObject.java
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- \* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/DbPath.java
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- \* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/DBOptionsInterface.java
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\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/Options.java.orig  
\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/CompressionType.java  
\* /opt/cola/permits/1473598162\_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/BackupableDBOptions.java

```
* /opt/cola/permits/1473598162_1668797856.4726114/0/rocksdbjni-6-7-3-sources-
jar/org/rocksdb/OptimisticTransactionOptions.java
* /opt/cola/permits/1473598162_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/WalFilter.java
* /opt/cola/permits/1473598162_1668797856.4726114/0/rocksdbjni-6-7-3-sources-
jar/org/rocksdb/AbstractRocksIterator.java
* /opt/cola/permits/1473598162_1668797856.4726114/0/rocksdbjni-6-7-3-sources-
jar/org/rocksdb/RocksDBException.java
* /opt/cola/permits/1473598162_1668797856.4726114/0/rocksdbjni-6-7-3-sources-
jar/org/rocksdb/CompactionReason.java
* /opt/cola/permits/1473598162_1668797856.4726114/0/rocksdbjni-6-7-3-sources-
jar/org/rocksdb/BackupEngine.java
* /opt/cola/permits/1473598162_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/LRUCache.java
* /opt/cola/permits/1473598162_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/Logger.java
* /opt/cola/permits/1473598162_1668797856.4726114/0/rocksdbjni-6-7-3-sources-jar/org/rocksdb/Snapshot.java
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```

```
// Copyright (c) 2011-present, Facebook, Inc. All rights reserved.
// This source code is licensed under both the GPLv2 (found in the
```

Found in path(s):

```
* /opt/cola/permits/1473598162_1668797856.4726114/0/rocksdbjni-6-7-3-sources-
jar/org/rocksdb/UInt64AddOperator.java
```

## 1.312 nucleus-grizzly-jars-combining 6.2.4

### 1.312.1 Available under license :

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```
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```

Found in path(s):

```
* /opt/cola/permits/1473601758_1668805595.2025998/0/nucleus-grizzly-all-6-2-4-
jar/org/glassfish/grizzly/version.properties
```

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```
<!--
```

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-->

Found in path(s):

\* /opt/cola/permits/1473601758\_1668805595.2025998/0/nucleus-grizzly-all-6-2-4-jar/META-INF/maven/org.glassfish.main.grizzly/nucleus-grizzly-all/pom.xml

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

Manifest-Version: 1.0

Bnd-LastModified: 1641749590635

Build-Jdk-Spec: 11

Bundle-Description: combining of all nucleus grizzly jars

Bundle-DocURL: <https://www.eclipse.org>

Bundle-License: <http://www.eclipse.org/legal/epl-2.0>, <https://www.gnu.org/software/classpath/license.html>

Bundle-ManifestVersion: 2

Bundle-Name: Nucleus Grizzly jars Combining

Bundle-SymbolicName: org.glassfish.main.grizzly.nucleus-grizzly-all

Bundle-Vendor: Eclipse Foundation

Bundle-Version: 6.2.4

Class-Path: grizzly-framework.jar grizzly-portunif.jar grizzly-http.jar grizzly-http2.jar grizzly-http-server.jar grizzly-config.jar hk2.jar hk2-utils.jar jakarta.annotation-api.jar jakarta.inject-api.jar hk2-api.jar aopalliance-repackaged.jar hk2-core.jar hk2-locator.jar javaassist.jar hk2-runlevel.jar class-model.jar asm-analysis.jar asm-tree.jar hk2-config.jar tiger-types.jar hibernate-validator.jar jakarta.validation-api.jar jboss-logging.jar classmate.jar config-types.jar jakarta.xml.bind-api.jar jaxb-osgi.jar jakarta.activation.jar asm.jar asm-util.jar asm-commons.jar

Created-By: Apache Maven Bundle Plugin

DynamicImport-Package: \*

Export-Package: org.glassfish.grizzly;uses:="org.glassfish.grizzly.asyncqueue,org.glassfish.grizzly.attributes,org.glassfish.grizzly.impl,org.glassfish.grizzly.memory,org.glassfish.grizzly.monitoring,org.glassfish.grizzly.nio,org.glassfish.grizzly.strategies,org.glassfish.grizzly.streams,org.glassfish.grizzly.threadpool,org.glassfish.grizzly.utils";version="3.0.1",org.glassfish.grizzly.asyncqueue;uses:="org.glassfish.grizzly,org.glassfish.grizzly.utils";version="3.0.1",org.glassfish.grizzly.attributes;uses:="org.glassfish.grizzly.utils";version="3.0.1",org.glassfish.grizzly.compression.lzma;uses:="org.glassfish.grizzly,org.glassfish.grizzly.attributes,org.glassfish.grizzly.compression.lzma.impl,org.glassfish.grizzly.filterchain,org.glassfish.grizzly.

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Import-Package: jakarta.inject;version="[2.0,3)",jakarta.validation;version="[3.0,4)",jakarta.validation.constraints;version="[3.0,4)",javax.net.ssl,javax.security.auth,javax.security.auth.x500,javax.security.cert,javax.xml.stream,org.glassfish.grizzly;version="[3.0,4)",org.glassfish.grizzly.asyncqueue;version="[3.0,4)",org.glassfish.grizzly.attributes;version="[3.0,4)",org.glassfish.grizzly.compression.lzma;version="[3.0,4)",org.glassfish.grizzly.compression.lzma.impl;version="[3.0,4)",org.glassfish.grizzly.compression.lzma.impl.lz;version="[3.0,4)",org.glassfish.grizzly.compression.lzma.impl.rangecoder;version="[3.0,4)",org.glassfish.grizzly.compression.zip;version="[3.0,4)",org.glassfish.grizzly.config;version="[6.2,7)",org.glassfish.grizzly.config.dom;version="[6.2,7)",org.glassfish.grizzly.config.portunif;version="[6.2,7)",org.glassfish.grizzly.config.ssl;version="[6.2,7)",org.glassfish.grizzly.filterchain;version="[3.0,4)",org.glassfish.grizzly.http;version="[3.0,4)",org.glassfish.grizzly.http.io;version="[3.0,4)",org.glassfish.grizzly.http.server;version="[3.0,4)",org.glassfish.grizzly.http.server.filecache;version="[3.0,4)",org.glassfish.grizzly.http.server.http2;version="[3.0,4)",org.glassfish.grizzly.http.server.io;version="[3.0,4)",org.glassfish.grizzly.http.server.jmxbase;version="[3.0,4)",org.glassfish.grizzly.http.server.naming;version="[3.0,4)",org.glassfish.grizzly.http.server.util;version="[3.0,4)",org.glassfish.grizzly.http.util;version="[3.0,4)",org.glassfish.grizzly.http2;version="[3.0,4)",org.glassfish.grizzly.http2.frames;version="[3.0,4)",org.glassfish.grizzly.http2.hpack;version="[3.0,4)",org.glassfish.grizzly.http2.utils;version="[3.0,4)",org.glassfish.grizzly.impl;version="[3.0,4)",org.glassfish.grizzly.jmxbase;version="[3.0,4)",org.glassfish.grizzly.localization;version="[3.0,4)",org.glassfish.grizzly.memory;version="[3.0,4)",org.glassfish.grizzly.monitoring;version="[3.0,4)",org.glassfish.grizzly.nio;version="[3.0,4)",org.glassfish.grizzly.nio.tmpselectors;version="[3.0,4)",org.glassfish.grizzly.nio.transport;version="[3.0,4)",org.glassfish.grizzly.npn,org.glassfish.grizzly.portunif;version="[3.0,4)",org.glassfish.grizzly.portunif.finders;version="[3.0,4)",org.glassfish.grizzly.ssl;version="[3.0,4)",org.glassfish.grizzly.strategies;version="[3.0,4)",org.glassfish.grizzly.streams;version="[3.0,4)",org.glassfish.grizzly.threadpool;version="[3.0,4)",org.glassfish.grizzly.utils;version="[3.0,4)",org.glassfish.grizzly.

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Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=11))"
Tool: Bnd-5.1.1.202006162103
```

Found in path(s):

```
* /opt/cola/permits/1473601758_1668805595.2025998/0/nucleus-grizzly-all-6-2-4-jar/META-INF/MANIFEST.MF
```

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```
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```

Found in path(s):

```
* /opt/cola/permits/1473601758_1668805595.2025998/0/nucleus-grizzly-all-6-2-4-jar/org/glassfish/grizzly/config/ssl/LocalStrings.properties
```

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```
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```

Found in path(s):

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* /opt/cola/permits/1473601758_1668805595.2025998/0/nucleus-grizzly-all-6-2-4-jar/org/glassfish/grizzly/localization/log.properties
```

```
* /opt/cola/permits/1473601758_1668805595.2025998/0/nucleus-grizzly-all-6-2-4-jar/org/glassfish/grizzly/http/util/version.properties
```

## 1.313 snappy-java 1.1.8.1

### 1.313.1 Available under license :

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PureJavaCrc32C from apache-hadoop-common <http://hadoop.apache.org/>  
(Apache 2.0 license)

This library contained statically linked libstdc++. This inclusion is allowed by  
"GCC Runtime Library Exception"  
<http://gcc.gnu.org/onlinedocs/libstdc++/manual/license.html>

== Contributors ==

- \* Tatu Saloranta
  - \* Providing benchmark suite
- \* Alec Wysoker
  - \* Performance and memory usage improvement

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## 1.314 disruptor-framework 3.4.2

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```
* /opt/cola/permits/1046386387_1649800803.39/0/disruptor-3-4-2-sources-
jar/com/lmax/disruptor/util/ThreadHints.java
```

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\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/EventReleaser.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/EventReleaseAware.java

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\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/LiteBlockingWaitStrategy.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/MultiProducerSequencer.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/SequenceGroup.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/LifecycleAware.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/dsl/Disruptor.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/AlertException.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-

jar/com/lmax/disruptor/EventHandler.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/NoOpEventProcessor.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/util/DaemonThreadFactory.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/AggregateEventHandler.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/EventTranslatorTwoArg.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/WorkHandler.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/YieldingWaitStrategy.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/SingleProducerSequencer.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/PhasedBackoffWaitStrategy.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/EventTranslator.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/SequenceReportingEventHandler.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/IgnoreExceptionHandler.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/BatchEventProcessor.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/EventProcessor.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/ExceptionHandler.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/BlockingWaitStrategy.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/WaitStrategy.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/EventTranslatorOneArg.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/util/Util.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/RingBuffer.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/AbstractSequencer.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/EventFactory.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/EventTranslatorThreeArg.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/BusySpinWaitStrategy.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-  
jar/com/lmax/disruptor/dsl/EventProcessorInfo.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-

jar/com/lmax/disruptor/SleepingWaitStrategy.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/WorkerPool.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/dsl/EventHandlerGroup.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/dsl/ConsumerRepository.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/FatalExceptionHandler.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/SequenceBarrier.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/WorkProcessor.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/EventTranslatorVararg.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/dsl/ExceptionHandlerSetting.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/ProcessingSequenceBarrier.java  
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\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/dsl/ProducerType.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/Sequence.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/SequenceGroups.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/InsufficientCapacityException.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/DataProvider.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/Sequencer.java  
\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/Cursored.java

\* /opt/cola/permits/1046386387\_1649800803.39/0/disruptor-3-4-2-sources-jar/com/lmax/disruptor/FixedSequenceGroup.java

## 1.315 kotlin-stdlib-common 1.6.21

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Found in path(s):

```
* /opt/cola/permits/1473460248_1668570766.8452125/0/rest-assured-5-1-0-sources-
jar/io/restassured/internal/filter/FilterContextImpl.groovy
* /opt/cola/permits/1473460248_1668570766.8452125/0/rest-assured-5-1-0-sources-
jar/io/restassured/internal/RestAssuredResponseOptionsImpl.java
* /opt/cola/permits/1473460248_1668570766.8452125/0/rest-assured-5-1-0-sources-
jar/io/restassured/internal/matcher/xml/LoadFromClasspathSupport.groovy
* /opt/cola/permits/1473460248_1668570766.8452125/0/rest-assured-5-1-0-sources-
jar/io/restassured/internal/AuthenticationSpecificationImpl.groovy
* /opt/cola/permits/1473460248_1668570766.8452125/0/rest-assured-5-1-0-sources-
jar/io/restassured/specification/AuthenticationSpecification.java
* /opt/cola/permits/1473460248_1668570766.8452125/0/rest-assured-5-1-0-sources-
jar/io/restassured/internal/LogRequestAndResponseOnFailListener.groovy
* /opt/cola/permits/1473460248_1668570766.8452125/0/rest-assured-5-1-0-sources-
jar/io/restassured/internal/matcher/xml/XMLsdMatcher.groovy
* /opt/cola/permits/1473460248_1668570766.8452125/0/rest-assured-5-1-0-sources-
jar/io/restassured/internal/http/ContentEncoding.java
* /opt/cola/permits/1473460248_1668570766.8452125/0/rest-assured-5-1-0-sources-
jar/io/restassured/internal/http/ContentEncodingRegistry.java
* /opt/cola/permits/1473460248_1668570766.8452125/0/rest-assured-5-1-0-sources-
jar/io/restassured/authentication/NTLMAuthScheme.groovy
* /opt/cola/permits/1473460248_1668570766.8452125/0/rest-assured-5-1-0-sources-
jar/io/restassured/internal/http/HttpResponseDecorator.java
* /opt/cola/permits/1473460248_1668570766.8452125/0/rest-assured-5-1-0-sources-
jar/io/restassured/specification/ResponseSpecification.java
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\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/MultiValueEntity.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/PreemptiveAuthSpecImpl.groovy  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/specification/QueryableRequestSpecification.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/config/HeaderConfig.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/authentication/ExplicitNoAuthScheme.groovy  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/mapper/ObjectMapperSerializationContext.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/specification/LogSpecification.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/support/FileReader.groovy  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/response/ExtractableResponse.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/http/BoundaryExtractor.groovy  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/config/LogConfig.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/matcher/ResponseAwareMatcherComposer.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/assertion/StreamVerifier.groovy  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/builder/ResponseSpecBuilder.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/mapping/Jackson2Mapper.groovy  
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\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/http/ResponseParseException.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/support/PathSupport.groovy  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/ResponseSpecificationImpl.groovy  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/response/ResponseOptions.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/builder/MultiPartSpecBuilder.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/mapping/JohnzonMapper.groovy  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/RequestLogSpecificationImpl.groovy  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/ContentParser.groovy

\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/matcher/RestAssuredMatchers.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/specification/RequestSender.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/ValidatableResponseOptionsImpl.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/specification/RequestSpecification.java  
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\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/http/Status.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/print/ResponsePrinter.java  
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\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/response/ResponseBodyData.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/util/IOUtils.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/config/ObjectMapperConfig.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/authentication/OAuthScheme.groovy  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/config/OAuthConfig.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/config/DecoderConfig.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/mapping/JakartaEEMapper.groovy  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/config/MultiPartConfig.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/config/FailureConfig.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/matcher/ResponseAwareMatcher.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/UriValidator.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/support/CloseHttpClientConnectionInputStreamWrapper.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/filter/log/ErrorLoggingFilter.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/authentication/NoAuthScheme.groovy  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/filter/log/LogDetail.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/http/DeflateEncoding.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/mapping/JaxbMapper.groovy  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/http/CustomHttpMethod.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/assertion/HeaderMatcher.groovy  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/http/Headers.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/TrustAndKeystoreSpecImpl.groovy  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/RestAssuredResponseOptionsGroovyImpl.groovy  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/mapper/ObjectMapper.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/authentication/FormAuthScheme.groovy

\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/mapper/ObjectMapperDeserializationContext.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/config/XmlConfig.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/spi/AuthFilter.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/support/ParameterUpdater.groovy  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/multipart/RestAssuredMultiPartEntity.groovy  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/filter/log/RequestLoggingFilter.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/http/CharsetExtractor.groovy  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/NoParameterValue.groovy  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/RestAssuredResponseImpl.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/filter/OrderedFilter.java  
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\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/http/HttpResponseContentTypeFinder.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/specification/RequestLogSpecification.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/assertion/ResponseTimeMatcher.groovy  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/config/MatcherConfig.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/authentication/PreemptiveAuthProvider.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/util/MatcherErrorMessageBuilder.java  
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\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/authentication/OAuth2Scheme.groovy  
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\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/http/ContentType.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/print/RequestPrinter.java  
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\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/SpecificationMerger.groovy

\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/specification/Argument.java

\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/authentication/AuthenticationScheme.groovy

\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/http/EncoderRegistry.java

\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/response/Response.java

\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/config/ConnectionConfig.java

\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/proxy/RestAssuredProxySelectorRoutePlanner.java

\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/mapping/GsonMapper.groovy

\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/TestSpecificationImpl.groovy

\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/config/JsonConfig.java

\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/http/ContentTypeSubTypeExtractor.groovy  
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\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/http/Cookies.java  
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\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/specification/RedirectSpecification.java  
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\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/filter/session/SessionFilter.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/http/BasicNameValuePairWithNoValueSupport.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/parsing/Parser.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/http/AuthConfig.java  
\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/response/ResponseBodyExtractionOptions.java  
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Found in path(s):

\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/RestAssuredHttpBuilder.java

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\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/ResponseParserRegistrar.java

\* /opt/cola/permits/1473460248\_1668570766.8452125/0/rest-assured-5-1-0-sources-jar/io/restassured/internal/mapping/JsonbMapper.groovy

## 1.318 kafka-schema-registry-client 5.5.5

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

<licenses>
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 <name>Apache License 2.0</name>
 <url>http://www.apache.org/licenses/LICENSE-2.0.html</url>
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</licenses>

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</dependency>
<dependency>
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</dependency>
<dependency>
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</dependency>
</dependencies>
</project>
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Found in path(s):

\* /opt/cola/permits/1341639824\_1654785850.9168322/0/kafka-schema-registry-client-5-5-5-jar/META-INF/maven/io.confluent/kafka-schema-registry-client/pom.xml

# 1.319 scala-logging\_2.12 3.9.2

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jar/jvmMain/com/squareup/wire/EnumAdapter.kt  
\* /opt/cola/permits/1340031473\_1654666144.907512/0/wire-runtime-3-6-0-sources-  
jar/jvmMain/com/squareup/wire/AndroidMessage.kt  
\* /opt/cola/permits/1340031473\_1654666144.907512/0/wire-runtime-3-6-0-sources-  
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- \* /opt/cola/permits/1340031473\_1654666144.907512/0/wire-runtime-3-6-0-sources-jar/jvmMain/com/squareup/wire/Duration.kt
- \* /opt/cola/permits/1340031473\_1654666144.907512/0/wire-runtime-3-6-0-sources-jar/jvmMain/com/squareup/wire/internal/EnumJsonFormatter.kt
- \* /opt/cola/permits/1340031473\_1654666144.907512/0/wire-runtime-3-6-0-sources-jar/commonMain/com/squareup/wire/WireEnumConstant.kt
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- \* /opt/cola/permits/1340031473\_1654666144.907512/0/wire-runtime-3-6-0-sources-jar/jvmMain/com/squareup/wire/internal/DurationJsonFormatter.kt
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- \* /opt/cola/permits/1340031473\_1654666144.907512/0/wire-runtime-3-6-0-sources-jar/jvmMain/com/squareup/wire/internal/InstantJsonFormatter.kt
- \* /opt/cola/permits/1340031473\_1654666144.907512/0/wire-runtime-3-6-0-sources-jar/commonMain/com/squareup/wire/AnyMessage.kt
- \* /opt/cola/permits/1340031473\_1654666144.907512/0/wire-runtime-3-6-0-sources-jar/jvmMain/com/squareup/wire/internal/JsonIntegration.kt

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jar/commonMain/com/squareup/wire/internal/MutableOnWriteList.kt
```

```
* /opt/cola/permits/1340031473_1654666144.907512/0/wire-runtime-3-6-0-sources-
jar/jvmMain/com/squareup/wire/internal/FieldBinding.kt
```

```
* /opt/cola/permits/1340031473_1654666144.907512/0/wire-runtime-3-6-0-sources-
jar/commonMain/com/squareup/wire/ProtoAdapter.kt
```

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* /opt/cola/permits/1340031473_1654666144.907512/0/wire-runtime-3-6-0-sources-
```

jar/jvmMain/com/squareup/wire/ProtoAdapter.kt

\* /opt/cola/permits/1340031473\_1654666144.907512/0/wire-runtime-3-6-0-sources-

jar/jvmMain/com/squareup/wire/MessageSerializedForm.kt

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jar/commonMain/com/squareup/wire/MessageSink.kt

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jar/jvmMain/com/squareup/wire/internal/-Platform.kt

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jar/jvmMain/com/squareup/wire/MessageSource.kt

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\* /opt/cola/permits/1340031473\_1654666144.907512/0/wire-runtime-3-6-0-sources-jar/commonMain/com/squareup/wire/WireField.kt  
\* /opt/cola/permits/1340031473\_1654666144.907512/0/wire-runtime-3-6-0-sources-jar/jvmMain/com/squareup/wire/Wire.kt

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\* /opt/cola/permits/1340031473\_1654666144.907512/0/wire-runtime-3-6-0-sources-jar/jvmMain/com/squareup/wire/internal/FieldOrOneOfBinding.kt

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jar/io/vavr/match/annotation/Unapply.java
* /opt/cola/permits/1446188441_1666171093.7016084/0/vavr-match-0-10-2-sources-2-
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```
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```

```
signature of Ty Coon, 1 April 1989
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# 1.331 io-grpc-grpc-api 1.46.0

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Manifest-Version: 1.0

Bnd-LastModified: 1545937975057

Build-Jdk: 1.8.0\_191

Built-By: artem

Bundle-Description: An Apache HttpClient wrapper providing Metrics instrumentation of connection pools, request durations and rates, and other useful information.

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: Metrics Integration for Apache HttpClient

Bundle-SymbolicName: io.dropwizard.metrics.httpclient

Bundle-Version: 4.0.5  
Created-By: Apache Maven Bundle Plugin  
Export-Package: com.codahale.metrics.httpClient;uses:="com.codahale.me  
trics,org.apache.http,org.apache.http.config,org.apache.http.conn,org  
.apache.http.conn.routing,org.apache.http.conn.socket,org.apache.http  
.impl.client,org.apache.http.impl.conn,org.apache.http.protocol";vers  
ion="4.0.5"  
Implementation-Title: Metrics Integration for Apache HttpClient  
Implementation-URL: http://metrics.dropwizard.io/metrics-httpclient  
Implementation-Vendor-Id: io.dropwizard.metrics  
Implementation-Version: 4.0.5  
Import-Package: com.codahale.metrics;version="[4.0,5)",org.apache.http  
,org.apache.http.client,org.apache.http.client.methods,org.apache.htt  
p.client.utils,org.apache.http.config,org.apache.http.conn,org.apache  
.http.conn.routing,org.apache.http.conn.socket,org.apache.http.conn.s  
sl,org.apache.http.impl.client,org.apache.http.impl.conn,org.apache.h  
ttp.pool,org.apache.http.protocol  
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"  
Tool: Bnd-3.3.0.201609221906

Found in path(s):

\* /opt/cola/permits/1274705442\_1648835835.08/0/metrics-httpclient-4-0-5-jar/META-INF/MANIFEST.MF

# 1.333 jetty-java-based-http-1-x-http-2-servlet- websocket-server 9.4.49.v20220914

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\* org.eclipse.jetty.orbit;javax.mail.glassfish

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

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

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#### Oracle OpenJDK

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

- \* java.sun.security.ssl

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

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

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#### OW2

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

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#### Apache

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

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

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

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Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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## 1.336 checker-qual 2.10.0

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## 1.337 asm 9.2

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- \* /opt/cola/permits/1221704254\_1635458831.0/0/asm-9-2-sources-2-jar/org/objectweb/asm/TypePath.java
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- \* /opt/cola/permits/1221704254\_1635458831.0/0/asm-9-2-sources-2-jar/org/objectweb/asm/AnnotationWriter.java
- \* /opt/cola/permits/1221704254\_1635458831.0/0/asm-9-2-sources-2-jar/org/objectweb/asm/Opcodes.java
- \* /opt/cola/permits/1221704254\_1635458831.0/0/asm-9-2-sources-2-jar/org/objectweb/asm/CurrentFrame.java
- \* /opt/cola/permits/1221704254\_1635458831.0/0/asm-9-2-sources-2-jar/org/objectweb/asm/ModuleVisitor.java
- \* /opt/cola/permits/1221704254\_1635458831.0/0/asm-9-2-sources-2-jar/org/objectweb/asm/TypeReference.java

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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>
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\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/javax/rmi/CORBA/Util.java

\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/javax/rmi/CORBA/UtilDelegate.java

\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/javax/rmi/CORBA/Stub.java

\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/javax/rmi/CORBA/PortableRemoteObjectDelegate.java

\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-

jar/javax/rmi/CORBA/StubDelegate.java

\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-

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\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/PolicyOperations.java

\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/FloatHolder.java

\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/TRANSACTION\_ROLLEDBACK.java

\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/INVALID\_ACTIVITY.java

\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/ValueBaseHolder.java

\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/CODESET\_INCOMPATIBLE.java

\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/DefinitionKindHelper.java

\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/BooleanSeqHelper.java

\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/portable/StreamableValue.java

\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/ServiceInformationHolder.java

\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/FixedHolder.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/portable/ResponseHandler.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/ByteHolder.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/DynArray.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/CompletionStatus.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/WrongTransaction.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/\_PolicyStub.java  
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\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/INTF\_REPOS.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/LongLongSeqHolder.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/CurrentOperations.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/BAD\_QOS.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/DynSequence.java  
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\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/CharSeqHelper.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/StructMemberHelper.java  
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\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/BAD\_CONTEXT.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/NO\_IMPLEMENT.java  
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\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/DoubleSeqHelper.java  
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\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/TSIdentification.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/ACTIVITY\_REQUIRED.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/INV\_POLICY.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/NO\_PERMISSION.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/PolicyTypeHelper.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/FieldNameHelper.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/ARG\_IN.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/ARG\_INOUT.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/ServiceDetail.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/ServiceDetailHelper.java  
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\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/DynStruct.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/PolicyHelper.java  
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\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/IDLTypeHelper.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/Context.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/com/sun/corba/ee/org/omg/CORBA/SUNVMCID.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/FloatSeqHelper.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/\_IDLTypeStub.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/LongSeqHelper.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/com/sun/corba/ee/org/omg/CORBA/ORB.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/DefinitionKind.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/Bounds.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/IObjectOperations.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/INITIALIZE.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/DomainManager.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/DynEnum.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/NamedValue.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/portable/IDLEntity.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/OBJECT\_NOT\_EXIST.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/LocalObject.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/TSIdentificationPackage/NotAvailable.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/portable/Streamable.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/IMP\_LIMIT.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/IDLType.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/CharHolder.java

\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/CharSeqHolder.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/REBIND.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/Current.java  
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\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CosTSPortability/SenderHolder.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-jar/org/omg/CORBA/UserException.java

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jar/javax/rmi/CORBA/GetORBPropertiesFileAction.java
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 */
/**
 * This exception is raised if an operation implementation
 * throws a non-CORBA exception (such as an exception
```

\* specific to the implementation's programming language),  
 \* or if an operation raises a user exception that does not  
 \* appear in the operation's raises expression. UNKNOWN is  
 \* also raised if the server returns a system exception that  
 \* is unknown to the client. (This can happen if the server  
 \* uses a later version of CORBA than the client and new system  
 \* exceptions have been added to the later version.)<P>  
 \* It contains a minor code, which gives more detailed information about  
 \* what caused the exception, and a completion status. It may also contain  
 \* a string describing the exception.  
 \* <P>  
 \* See the section <A href="../../../../guide/idl/jidlExceptions.html#minorcodemeanings">Minor  
 \* Code Meanings</A> to see the minor codes for this exception.  
 \*  
 \* @see <A href="../../../../guide/idl/jidlExceptions.html">documentation on  
 \* Java&nbsp;IDL exceptions</A>  
 \* @version 1.10 07 Nov 1996  
 \*/

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\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-

jar/org/omg/stub/java/rmi/\_Remote\_Stub.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-  
jar/org/omg/CORBA/WStringValueHelper.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-  
jar/org/omg/CORBA\_2\_3/portable/OutputStream.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-  
jar/org/omg/CORBA/portable/UnknownException.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-  
jar/org/omg/CORBA/StringValueHelper.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-  
jar/javax/rmi/PortableRemoteObject.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-  
jar/org/omg/CORBA/portable/ValueBase.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-  
jar/javax/rmi/CORBA/ValueHandler.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-  
jar/org/omg/CORBA\_2\_3/portable/ObjectImpl.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-  
jar/org/omg/CORBA/portable/BoxedValueHelper.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-  
jar/javax/rmi/CORBA/ClassDesc.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-  
jar/org/omg/CORBA\_2\_3/portable/Delegate.java  
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jar/org/omg/CORBA/ValueBaseHelper.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-  
jar/org/omg/CORBA\_2\_3/portable/InputStream.java  
\* /opt/cola/permits/1473601445\_1668495831.9277503/0/glassfish-corba-omgapi-4-2-4-sources-1-  
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\* /opt/cola/permits/1473601740\_1668496045.176782/0/rest-assured-common-5-1-0-sources-

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jar/kotlin/internal/jdk8/JDK8PlatformImplementations.kt
* /opt/cola/permits/1343419559_1655661587.9846208/0/kotlin-stdlib-jdk8-1-6-21-sources-
jar/kotlin/streams/Streams.kt
* /opt/cola/permits/1343419559_1655661587.9846208/0/kotlin-stdlib-jdk8-1-6-21-sources-
jar/kotlin/text/RegexExtensions.kt
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# 1.353 jersey-core-server 2.31

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## 1.354 error\_prone\_annotations 2.3.3

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\* /opt/cola/permits/1370078224\_1658473960.0217261/0/error-prone-annotations-2-3-3-jar/META-INF/maven/com.google.errorprone/error\_prone\_annotations/pom.xml

## 1.355 asm-analysis 9.1

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```
* /opt/cola/permits/1183891316_1627493686.82/0/asm-analysis-9-1-sources-
jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1183891316_1627493686.82/0/asm-analysis-9-1-sources-
jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1183891316_1627493686.82/0/asm-analysis-9-1-sources-
jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/cola/permits/1183891316_1627493686.82/0/asm-analysis-9-1-sources-
jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1183891316_1627493686.82/0/asm-analysis-9-1-sources-
jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /opt/cola/permits/1183891316_1627493686.82/0/asm-analysis-9-1-sources-
jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/cola/permits/1183891316_1627493686.82/0/asm-analysis-9-1-sources-
jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1183891316_1627493686.82/0/asm-analysis-9-1-sources-
jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1183891316_1627493686.82/0/asm-analysis-9-1-sources-
jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /opt/cola/permits/1183891316_1627493686.82/0/asm-analysis-9-1-sources-
jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1183891316_1627493686.82/0/asm-analysis-9-1-sources-
jar/org/objectweb/asm/tree/analysis/SmallSet.java
```

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```

```
/**
```

```
* Constructs a new {@link BasicInterpreter} for the latest ASM API version. <i>Subclasses must
```

```
* not use this constructor</i>. Instead, they must use the {@link #BasicInterpreter\(int\)}
```

\* version.

\*/

Found in path(s):

\* /opt/cola/permits/1183891316\_1627493686.82/0/asm-analysis-9-1-sources-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java

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/\*\*

\* Constructs a new { @link SourceInterpreter} for the latest ASM API version. <i>Subclasses must

\* not use this constructor</i>. Instead, they must use the { @link #SourceInterpreter(int)}

\* version.

\*/

Found in path(s):

\* /opt/cola/permits/1183891316\_1627493686.82/0/asm-analysis-9-1-sources-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java

## 1.356 javassist 3.22.0-GA

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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/ClassFileWriter.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/scopedpool/ScopedClassPoolFactory.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/compiler/JvstTypeChecker.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/LineNumberAttribute.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/AccessFlag.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/compiler/TypeChecker.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/convert/TransformFieldAccess.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/convert/TransformNewClass.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/NotFoundException.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/analysis/IntQueue.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/Mnemonic.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/tools/reflect/Sample.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/Bytecode.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/ByteArrayClassPath.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/tools/reflect/CannotCreateException.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/compiler/JvstCodeGen.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/compiler/KeywordTable.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationsWriter.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/compiler/ast/DoubleConst.java  
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jar/javassist/tools/rmi/ObjectNotFoundException.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/CtNewMethod.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/compiler/ast/AssignExpr.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/EnclosingMethodAttribute.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/compiler/MemberCodeGen.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/convert/TransformCall.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/ClassPool.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/util/proxy/MethodFilter.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/tools/reflect/ClassMetaobject.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/stackmap/TypeData.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/expr/MethodCall.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/util/HotSwapAgent.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/expr/FieldAccess.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/compiler/ast/Stmnt.java



jar/javassist/compiler/ProceedHandler.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/expr/ConstructorCall.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/SerialVersionUID.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/compiler/CompileError.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/convert/TransformWriteField.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/compiler/ast/MethodDecl.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/util/proxy/SerializedProxy.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/compiler/NoFieldException.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/ClassPath.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/analysis/MultiArrayType.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/compiler/ast/ASTList.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/ExceptionsAttribute.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/CtNewClass.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/analysis/FramePrinter.java

\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/CodeConverter.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/compiler/Parser.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/Opcodes.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/runtime/Desc.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/compiler/ast/ASTree.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/convert/TransformBefore.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/tools/reflect/CannotInvokeException.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/compiler/ast/StringL.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/tools/rmi/RemoteRef.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/MethodInfo.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/compiler/ast/Visitor.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationImpl.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/util/proxy/SecurityActions.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/expr/Instanceof.java  
\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/analysis/Analyzer.java  
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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/tools/web/Viewer.java

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\* /opt/cola/permits/1145434175\_1616152007.27/0/javassist-3-22-0-ga-sources-5-jar/javassist/bytecode/annotation/MemberValue.java  
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# 1.357 dropwizard-jetty-support 2.0.12

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# 1.358 jackson-xc 2.14.0

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## ## Source Code

The project maintains the following source code repositories:

- \* <https://github.com/eclipse-ee4j/glassfish-ha-api>
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- \* <https://github.com/eclipse-ee4j/glassfish-fighterfish>
- \* <https://github.com/eclipse-ee4j/glassfish>
- \* <https://github.com/eclipse-ee4j/glassfish-maven-embedded-plugin>
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 */
```

Found in path(s):

```
* /opt/cola/permits/1473577662_1668493658.076706/0/hystrix-serialization-1-5-18-sources-1-
jar/com/netflix/hystrix/serial/SerialHystrixConfiguration.java
* /opt/cola/permits/1473577662_1668493658.076706/0/hystrix-serialization-1-5-18-sources-1-
jar/com/netflix/hystrix/serial/SerialHystrixRequestEvents.java
* /opt/cola/permits/1473577662_1668493658.076706/0/hystrix-serialization-1-5-18-sources-1-
jar/com/netflix/hystrix/serial/SerialHystrixUtilization.java
* /opt/cola/permits/1473577662_1668493658.076706/0/hystrix-serialization-1-5-18-sources-1-
jar/com/netflix/hystrix/serial/SerialHystrixDashboardData.java
```

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```
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```

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\*/

Found in path(s):

\* /opt/cola/permits/1473577662\_1668493658.076706/0/hystrix-serialization-1-5-18-sources-1-jar/com/netflix/hystrix/serial/SerialHystrixMetric.java

## 1.361 google-gson 2.8.9

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Manifest-Version: 1.0  
Created-By: 11.0.11 (Azul Systems, Inc.)  
Build-Jdk-Spec: 11  
Bnd-LastModified: 1635537586812  
Bundle-ContactAddress: <https://github.com/google/gson>  
Bundle-Description: Gson JSON library  
Bundle-DocURL: <https://github.com/google/gson/gson>  
Bundle-License: "Apache-2.0";link="https://www.apache.org/licenses/LICENSE-2.0.txt"  
Bundle-ManifestVersion: 2  
Bundle-Name: Gson  
Bundle-RequiredExecutionEnvironment: JavaSE-1.6, JavaSE-1.7, JavaSE-1.8  
Bundle-SCM: url="https://github.com/google/gson/gson/",connection="scm:git:https://github.com/google/gson.git/gson",developer-connection="scm:git:git@github.com:google/gson.git/gson",tag="gson-parent-2.8.9"  
Bundle-SymbolicName: com.google.gson  
Bundle-Vendor: Google Gson Project  
Bundle-Version: 2.8.9  
Export-Package: com.google.gson;uses:="com.google.gson.reflect,com.google.gson.stream";version="2.8.9",com.google.gson.annotations;version="2.8.9",com.google.gson.reflect;version="2.8.9",com.google.gson.stream;version="2.8.9"  
Import-Package: sun.misc;resolution:=optional,com.google.gson.annotation

s

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.6))"

Tool: Bnd-6.0.0.202110041835

Found in path(s):

\* /opt/cola/permits/1288695153\_1648172573.06/0/gson-2-8-9-jar/META-INF/MANIFEST.MF

# 1.362 micronaut-jax-rs 3.3.0

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## 1.363 rerunner-jupiter 2.1.6

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Found in path(s):

\* /opt/cola/permits/1473601549\_1668805790.7422304/0/rerunner-jupiter-2-1-6-jar/META-INF/maven/io.github.artsok/rerunner-jupiter/pom.xml

## 1.364 asm-commons 9.1

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Manifest-Version: 1.0

Bundle-DocURL: <http://asm.ow2.org>

Bundle-License: BSD-3-Clause;link=<https://asm.ow2.io/LICENSE.txt>

Bundle-ManifestVersion: 2

Bundle-Name: org.objectweb.asm.commons

Bundle-RequiredExecutionEnvironment: J2SE-1.5

Bundle-SymbolicName: org.objectweb.asm.commons

Bundle-Version: 9.1.0

Export-Package: org.objectweb.asm.commons;version="9.1";uses:="org.obj

ectweb.asm,org.objectweb.asm.signature,org.objectweb.asm.tree"  
Implementation-Title: Usefull class adapters based on ASM, a very smal  
l and fast Java bytecode manipulation framework  
Implementation-Version: 9.1  
Import-Package: org.objectweb.asm;version="[9.1,10)",org.objectweb.asm  
.signature;version="[9.1,10)",org.objectweb.asm.tree;version="[9.1,10  
)"  
Module-Requires: org.objectweb.asm;transitive=true,org.objectweb.asm.t  
ree;transitive=true,org.objectweb.asm.tree.analysis;transitive=true

Found in path(s):

\* /opt/cola/permits/1183889887\_1627494130.56/0/asm-commons-9-1-jar/META-INF/MANIFEST.MF

# 1.365 lettuce 6.1.6.RELEASE

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\* /opt/cola/permits/1343420005\_1655287863.244568/0/bom-2-17-194-pom-zip/bom-2.17.194.pom

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jar/io/cloudevents/core/v03/V1ToV03AttributesConverter.java  
\* /opt/cola/permits/1340815883\_1654861257.1698394/0/cloudevents-core-2-2-0-sources-  
jar/io/cloudevents/core/message/impl/GenericStructuredMessageReader.java  
\* /opt/cola/permits/1340815883\_1654861257.1698394/0/cloudevents-core-2-2-0-sources-  
jar/io/cloudevents/core/provider/EventFormatProvider.java  
\* /opt/cola/permits/1340815883\_1654861257.1698394/0/cloudevents-core-2-2-0-sources-  
jar/io/cloudevents/core/provider/ExtensionProvider.java  
\* /opt/cola/permits/1340815883\_1654861257.1698394/0/cloudevents-core-2-2-0-sources-  
jar/io/cloudevents/core/message/impl/BaseGenericBinaryMessageReaderImpl.java  
\* /opt/cola/permits/1340815883\_1654861257.1698394/0/cloudevents-core-2-2-0-sources-  
jar/io/cloudevents/core/message/Encoding.java  
\* /opt/cola/permits/1340815883\_1654861257.1698394/0/cloudevents-core-2-2-0-sources-  
jar/io/cloudevents/core/v1/CloudEventV1.java  
\* /opt/cola/permits/1340815883\_1654861257.1698394/0/cloudevents-core-2-2-0-sources-  
jar/io/cloudevents/core/message/MessageReader.java  
\* /opt/cola/permits/1340815883\_1654861257.1698394/0/cloudevents-core-2-2-0-sources-  
jar/io/cloudevents/core/format/EventFormat.java  
\* /opt/cola/permits/1340815883\_1654861257.1698394/0/cloudevents-core-2-2-0-sources-  
jar/io/cloudevents/core/v03/CloudEventV03.java  
\* /opt/cola/permits/1340815883\_1654861257.1698394/0/cloudevents-core-2-2-0-sources-  
jar/io/cloudevents/core/impl/BaseCloudEventBuilder.java  
\* /opt/cola/permits/1340815883\_1654861257.1698394/0/cloudevents-core-2-2-0-sources-  
jar/io/cloudevents/core/extensions/DatarefExtension.java  
\* /opt/cola/permits/1340815883\_1654861257.1698394/0/cloudevents-core-2-2-0-sources-  
jar/io/cloudevents/core/message/MessageWriter.java  
\* /opt/cola/permits/1340815883\_1654861257.1698394/0/cloudevents-core-2-2-0-sources-  
jar/io/cloudevents/core/format/EventDeserializationException.java  
\* /opt/cola/permits/1340815883\_1654861257.1698394/0/cloudevents-core-2-2-0-sources-  
jar/io/cloudevents/core/message/impl/BaseStructuredMessageReader.java  
\* /opt/cola/permits/1340815883\_1654861257.1698394/0/cloudevents-core-2-2-0-sources-  
jar/io/cloudevents/core/impl/CloudEventReaderAdapter.java  
\* /opt/cola/permits/1340815883\_1654861257.1698394/0/cloudevents-core-2-2-0-sources-  
jar/io/cloudevents/core/format/EventSerializationException.java  
\* /opt/cola/permits/1340815883\_1654861257.1698394/0/cloudevents-core-2-2-0-sources-  
jar/io/cloudevents/core/extensions/DistributedTracingExtension.java  
\* /opt/cola/permits/1340815883\_1654861257.1698394/0/cloudevents-core-2-2-0-sources-  
jar/io/cloudevents/core/message/impl/MessageUtils.java  
\* /opt/cola/permits/1340815883\_1654861257.1698394/0/cloudevents-core-2-2-0-sources-  
jar/io/cloudevents/core/message/impl/BaseBinaryMessageReader.java  
\* /opt/cola/permits/1340815883\_1654861257.1698394/0/cloudevents-core-2-2-0-sources-  
jar/io/cloudevents/core/message/StructuredMessageWriter.java  
\* /opt/cola/permits/1340815883\_1654861257.1698394/0/cloudevents-core-2-2-0-sources-  
jar/io/cloudevents/core/impl/BaseCloudEvent.java

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## 1.374 apiguardian-apiguardian-api 1.1.2

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# 1.376 netty-tomcatnative-openssl-dynamic

## 2.0.52.Final

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Found in path(s):

\* /opt/cola/permits/1473601599\_1668804738.5626402/0/netty-tcnative-2-0-52-final-jar/META-INF/maven/io.netty/netty-tcnative/pom.xml

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Manifest-Version: 1.0

Implementation-Title: Netty/TomcatNative [OpenSSL - Dynamic]

Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is dynamically linked to OpenSSL and Apache APR.

Automatic-Module-Name: io.netty.tcnative.openssl.osx-x86\_64

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

Bundle-SymbolicName: io.netty.tcnative

Implementation-Version: 2.0.52.Final

Built-By: norman

Bnd-LastModified: 1651736380643

Bundle-ManifestVersion: 2

Implementation-Vendor-Id: io.netty

Bundle-DocURL: <https://netty.io/>

Bundle-Vendor: The Netty Project

Fragment-Host: io.netty.tcnative-classes

Tool: Bnd-5.1.1.202006162103

Implementation-Vendor: The Netty Project

Bundle-Name: Netty/TomcatNative [OpenSSL - Dynamic]

Bundle-Version: 2.0.52.Final

Build-Jdk-Spec: 1.8

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0\_252

Implementation-URL: <https://github.com/netty/netty-tcnative/netty-tcnative/>

Found in path(s):

\* /opt/cola/permits/1473601599\_1668804738.5626402/0/netty-tcnative-2-0-52-final-jar/META-INF/MANIFEST.MF

## 1.377 apache-groovy 3.0.10

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## 1.378 micronaut-cache 3.4.1

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Found in path(s):

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```

Found in path(s):

```
* /opt/cola/permits/1473601752_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-
jar/jakarta/servlet/http/Part.java
* /opt/cola/permits/1473601752_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-
jar/jakarta/servlet/AsyncEvent.java
* /opt/cola/permits/1473601752_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-
jar/jakarta/servlet/GenericFilter.java
* /opt/cola/permits/1473601752_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-
jar/jakarta/servlet/http/HttpFilter.java
* /opt/cola/permits/1473601752_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-
jar/jakarta/servlet/http/MappingMatch.java
```

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Found in path(s):

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/ServletRequestListener.java

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/ServletContextAttributeEvent.java

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/UnavailableException.java

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/ServletContextEvent.java

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/ServletContextAttributeListener.java

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/Servlet.java

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/FilterConfig.java

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/ServletResponseWrapper.java

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/http/HttpServletRequestWrapper.java

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/http/HttpSession.java

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/http/HttpSessionContext.java

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/ServletRequestEvent.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/http/Cookie.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/ServletOutputStream.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/http/HttpSessionActivationListener.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/ServletContext.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/http/HttpServletRequest.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/http/HttpSessionBindingListener.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/http/HttpUtils.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/FilterChain.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/http/HttpServletResponse.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/http/HttpSessionEvent.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/http/HttpSessionBindingEvent.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/http/HttpServlet.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/RequestDispatcher.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/ServletResponse.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/ServletRequestWrapper.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/ServletConfig.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/ServletRequestAttributeListener.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/ServletRequestAttributeEvent.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/ServletException.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/Filter.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/ServletContextListener.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/http/HttpSessionListener.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/http/HttpSessionAttributeListener.java

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/ServletInputStream.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/http/HttpServletResponseWrapper.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/SingleThreadModel.java  
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\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/META-INF/maven/jakarta.servlet/jakarta.servlet-api/pom.xml

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*/
/**
 * Constructor to establish non-empty getRolesAllowed and/or <tt>TransportGuarantee.CONFIDENTIAL</tt>.
 *
 * @param guarantee <tt>TransportGuarantee.NONE</tt> or <tt>TransportGuarantee.CONFIDENTIAL</tt>
 * @param roleNames the names of the roles that are to be allowed access
 */
```

Found in path(s):

```
* /opt/cola/permits/1473601752_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-
jar/jakarta/servlet/HttpConstraintElement.java
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* /opt/cola/permits/1473601752_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-
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\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/SessionCookieConfig.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/ReadListener.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/ServletSecurityElement.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/ServletContainerInitializer.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/annotation/HttpMethodConstraint.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/MultipartConfigElement.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/annotation/HttpConstraint.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/WriteListener.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/descriptor/JspConfigDescriptor.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/descriptor/TaglibDescriptor.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/http/HttpSessionIdListener.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/SessionTrackingMode.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/Registration.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/annotation/ServletSecurity.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/FilterRegistration.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/descriptor/JspPropertyGroupDescriptor.java

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/HttpMethodConstraintElement.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/annotation/WebServlet.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/annotation/WebListener.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/annotation/HandlesTypes.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/AsyncListener.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/annotation/WebInitParam.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/http/ApplicationBuilder.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/annotation/WebFilter.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/AsyncContext.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/http/WebConnection.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/ServletRegistration.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/DispatcherType.java  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/http/HttpUpgradeHandler.java

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\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/LocalStrings.properties

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/http/LocalStrings\_ja.properties

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/LocalStrings\_fr.properties

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/LocalStrings\_ja.properties

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/http/LocalStrings\_es.properties

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Found in path(s):

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/GenericServlet.java

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\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/web-fragment\_5\_0.xsd

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/jakartaee\_9.xsd

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/jsp\_3\_0.xsd

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/jakartaee\_web\_services\_client\_2\_0.xsd

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/jakartaee\_web\_services\_2\_0.xsd

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/web-jsptaglibrary\_3\_0.xsd

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/web-app\_5\_0.xsd

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- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/web-common\_3\_0.xsd
- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/jsp\_2\_1.xsd
- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/web-app\_3\_1.xsd
- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/javaee\_8.xsd
- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/web-app\_2\_4.xsd
- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/javaee\_web\_services\_1\_3.xsd
- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/javaee\_6.xsd
- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/web-app\_3\_0.xsd
- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/jsp\_2\_0.xsd
- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/web-fragment\_3\_0.xsd
- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/web-jsptaglibrary\_2\_0.xsd
- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/web-common\_4\_0.xsd
- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/javaee\_web\_services\_1\_2.xsd
- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/javaee\_web\_services\_client\_1\_4.xsd
- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/javaee\_web\_services\_client\_1\_2.xsd
- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/javaee\_5.xsd
- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/jsp\_2\_3.xsd
- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/j2ee\_web\_services\_1\_1.xsd
- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/j2ee\_web\_services\_client\_1\_1.xsd
- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/javaee\_web\_services\_client\_1\_3.xsd
- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/javaee\_7.xsd
- \* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/web-app\_2\_5.xsd

\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/web-jsptaglibrary\_2\_1.xsd  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/web-fragment\_4\_0.xsd  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/web-app\_4\_0.xsd  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/javaee\_web\_services\_1\_4.xsd  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/j2ee\_1\_4.xsd  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/jsp\_2\_2.xsd  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/web-fragment\_3\_1.xsd  
\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/web-common\_3\_1.xsd

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\* /opt/cola/permits/1473601752\_1668803141.37822/0/jakarta-servlet-api-5-0-0-sources-jar/jakarta/servlet/resources/web-jsptaglibrary\_1\_1.dtd

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<xsd:enumeration value="CONFIDENTIAL"/>

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# 1.380 dropwizard-configuration-support

## 2.0.12

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# 1.381 io-grpc-grpc-protobuf-lite 1.46.0

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Found in path(s):

\* /opt/cola/permits/1427929639\_1664343717.2597163/0/grpc-protobuf-lite-1-46-0-sources-jar/io/grpc/protobuf/lite/ProtoInputStream.java

\* /opt/cola/permits/1427929639\_1664343717.2597163/0/grpc-protobuf-lite-1-46-0-sources-jar/io/grpc/protobuf/lite/ProtoLiteUtils.java

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\* /opt/cola/permits/1427929639\_1664343717.2597163/0/grpc-protobuf-lite-1-46-0-sources-jar/io/grpc/protobuf/lite/package-info.java

# 1.382 cloudevents---api 2.2.0

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\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/lang/Nullable.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/rw/CloudEventContextReader.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/rw/CloudEventContextWriter.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/rw/CloudEventRWException.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/CloudEvent.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/rw/CloudEventReader.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/rw/CloudEventDataMapper.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/CloudEventExtension.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/CloudEventContext.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/rw/CloudEventWriterFactory.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/CloudEventAttributes.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/types/Time.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/CloudEventData.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/SpecVersion.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/rw/CloudEventWriter.java  
\* /opt/cola/permits/1340815985\_1654861270.8175628/0/cloudevents-api-2-2-0-sources-jar/io/cloudevents/CloudEventExtensions.java

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# 1.383 jersey-media-json-jackson 2.28

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\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/validators/NoValueValidator.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/IPParameterValidator.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/validators/PositiveInteger.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/IPParameterValidator2.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/validators/NoValidator.java

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\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/ResourceBundle.java

\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/converters/BaseConverter.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/internal/Sets.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/ParameterDescription.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/converters/IntegerConverter.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/converters/ISO8601DateConverter.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/converters/StringConverter.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/ParametersDelegate.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/converters/LongConverter.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/IDefaultProvider.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/converters/FileConverter.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/converters/PathConverter.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/defaultprovider/PropertyFileDefaultProvider.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/Parameters.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/converters/InetAddressConverter.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/IStringConverterFactory.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/converters/BigDecimalConverter.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/ParameterException.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/converters/FloatConverter.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/converters/NoConverter.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/internal/Maps.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/MissingCommandException.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/converters/URICConverter.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/IStringConverter.java  
\* /opt/cola/permits/1009978799\_1649800662.98/0/jcommander-1-72-sources-jar/com/beust/jcommander/internal/Lists.java

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* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-
jar/com/beust/jcommander/converters/URLConverter.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-
jar/com/beust/jcommander/converters/BooleanConverter.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-
jar/com/beust/jcommander/internal/DefaultConverterFactory.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-
jar/com/beust/jcommander/converters/DoubleConverter.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-
jar/com/beust/jcommander/converters/CharArrayConverter.java
* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-
jar/com/beust/jcommander/Parameter.java
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* /opt/cola/permits/1009978799_1649800662.98/0/jcommander-1-72-sources-
jar/com/beust/jcommander/JCommander.java
```

## 1.385 logback-core 1.2.10

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# 1.386 micronaut-data 3.4.1

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