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Package org.apache.commons.collections4.queue

This package contains implementations for the [Queue](https://docs.oracle.com/javase/7/docs/api/java/util/Queue.html?is-external=true) interface.

See: [Description](#3znysh7)

* Class Summary

|  |  |
| --- | --- |
| * Class | * Description |
| * [AbstractQueueDecorator](http://docs.google.com/org/apache/commons/collections4/queue/AbstractQueueDecorator.html)<E> | * Decorates another [Queue](https://docs.oracle.com/javase/7/docs/api/java/util/Queue.html?is-external=true) to provide additional behaviour. |
| * [CircularFifoQueue](http://docs.google.com/org/apache/commons/collections4/queue/CircularFifoQueue.html)<E> | * CircularFifoQueue is a first-in first-out queue with a fixed size that replaces its oldest element if full. |
| * [PredicatedQueue](http://docs.google.com/org/apache/commons/collections4/queue/PredicatedQueue.html)<E> | * Decorates another [Queue](https://docs.oracle.com/javase/7/docs/api/java/util/Queue.html?is-external=true) to validate that additions match a specified predicate. |
| * [SynchronizedQueue](http://docs.google.com/org/apache/commons/collections4/queue/SynchronizedQueue.html)<E> | * Decorates another [Queue](https://docs.oracle.com/javase/7/docs/api/java/util/Queue.html?is-external=true) to synchronize its behaviour for a multi-threaded environment. |
| * [TransformedQueue](http://docs.google.com/org/apache/commons/collections4/queue/TransformedQueue.html)<E> | * Decorates another [Queue](https://docs.oracle.com/javase/7/docs/api/java/util/Queue.html?is-external=true) to transform objects that are added. |
| * [UnmodifiableQueue](http://docs.google.com/org/apache/commons/collections4/queue/UnmodifiableQueue.html)<E> | * Decorates another [Queue](https://docs.oracle.com/javase/7/docs/api/java/util/Queue.html?is-external=true) to ensure it can't be altered. |

## Package org.apache.commons.collections4.queue Description

This package contains implementations for the [Queue](https://docs.oracle.com/javase/7/docs/api/java/util/Queue.html?is-external=true) interface.

The following implementations are provided in the package:

* CircularFifoQueue - implements a queue with a fixed size that discards oldest when full

The following decorators are provided in the package:

* Predicated - ensures that only elements that are valid according to a predicate can be added
* Transformed - transforms elements added to the queue
* Unmodifiable - ensures the collection cannot be altered

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