

Package ‘liqueueR’

May 30, 2026

Type Package

Title Implements Queue, PriorityQueue and Stack Classes

Version 0.0.5

Description Provides three classes: Queue, PriorityQueue and Stack. Queue is just a
``plain vanilla" FIFO queue; PriorityQueue orders items according to priority. Stack imple-
ments LIFO.

URL <https://github.com/DataWookie/liqueueR>

BugReports <https://github.com/DataWookie/liqueueR/issues>

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Encoding UTF-8

Imports itertools, methods

Suggests testthat, iterators

RoxygenNote 7.3.2

NeedsCompilation no

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PriorityQueue-class *A PriorityQueue reference class*

Description

Derived from the Queue class.

Fields

data Initial data to populate the queue.
priorities Numeric queue priorities.
prioritise Function to calculate priorities from items.

Methods

pop(N = 1) Removes and returns head of queue (or raises error if queue is empty). N is number of items to pop.
push(item) Inserts element at back of the queue.

See Also

[Queue-class](#) for information on base class.

Queue-class *A Queue reference class*

Description

A Queue reference class

Fields

data Initial data to populate the queue.

Methods

peek(pos = c(1), as.list = FALSE) Returns (but does not remove) specified positions in queue (or NULL if any one of them is not available). The as.list argument will cause a list to be returned even if only one element requested.
poll() Removes and returns head of queue (or NULL if queue is empty).
pop(N = 1) Removes and returns head of queue (or raises error if queue is empty). N is number of items to pop.
push(item) Inserts element at back of the queue.
size() Returns the number of items in the queue.

Examples

```
queue <- Queue$new()
queue$push("one")
queue$push(2)
queue$push("three")
queue$size()
queue$pop()
queue$poll()
```

Stack-class

A Stack reference class

Description

Derived from the Queue class.

Fields

data Initial data to populate the stack.

Methods

push(item) Inserts element at back of the queue.

See Also

[Queue-class](#) for information on base class.

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