Package ‘rstack’

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Title Stack Data Type as an ‘R6’ Class
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Description An extremely simple stack data type, implemented with ‘R6’ classes. The size of the stack increases as needed, and the amortized time complexity is O(1). The stack may contain arbitrary objects.
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LazyData true
URL https://github.com/MangoTheCat/rstack#readme
BugReports https://github.com/MangoTheCat/rstack/issues
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Suggests covr, testthat
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A stack data type, implemented as an R6 class

Description

Methods:

- `push(elem)` Puts an R object on the top of the stack. This operation might trigger the allocation of memory, if the currently allocated memory cannot hold the new element. Still, the amortized time complexity of the stack is constant. The stack may contain arbitrary R objects.
- `pop()` Removes and returns the top element of the stack. It throws an error if the stack is empty.
- `peek()` Returns the top element of the stack. (Without removing it.) It throws an error if the stack is empty.
- `size()` Returns the number of elements in the stack.
- `is_empty()` Returns whether the stack is empty.

Usage

```
stack
```

Format

An object of class `R6ClassGenerator` of length 24.

Examples

```
S <- stack$new()
S$push(1L)
S$peek()
S$pop()
S$size()

S$push(NULL)
S$push(iris)
colnames(S$peek())
```
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