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- Summary:
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SEARCH

reset

Class Iterator<T>

[java.lang.Object](#)

Iterator<T>

Type Parameters:
T - type of the set or vector

public class Iterator<T> extends [Object](#)
Iterator class to iterate over the set or vector I also added 3 more functions to make it easier to use

• Field Summary

Fields
Modifier and Type
Field
Description
private [Object](#)[]
[array](#)
array: set or vector's array
private int
[currentIndex](#)
currentIndex: index of the current element
private int
[size](#)
size: size of the set or vector

• Constructor Summary

Constructors
Constructor
Description
[Iterator](#)([Object](#)[] _array, int _size)
constructor

• Method Summary

All Methods

Instance Methods

Concrete Methods

Modifier and Type

Method

Description

(package private) [I](#)

[begin\(\)](#)

begin: sets the iterator to the first element

(package private) [I](#)

[current\(\)](#)

current: returns the current element

(package private) [I](#)

[end\(\)](#)

end: sets the iterator to the last element

(package private) boolean

[hasNext\(\)](#)

function to check if there is a next element

(package private) [I](#)

[next\(\)](#)

function to get the next element

[String](#)

[toString\(\)](#)

toString method

Methods inherited from class [java.lang.Object](#)

[clone](#), [equals](#), [finalize](#), [getClass](#), [hashCode](#), [notify](#), [notifyAll](#), [wait](#), [wait](#), [wait](#)

• Field Details

◦ **currentIndex**

private int currentIndex

currentIndex: index of the current element

◦ **size**

private int size

size: size of the set or vector

◦ **array**

private [Object](#)[] array

array: set or vector's array

• Constructor Details

◦ **Iterator**

public [Iterator](#)([Object](#)[] _array, int _size)

constructor

Parameters:

_array - calling set or vector's array

_size - calling set or vector's size

• Method Details

◦ **hasNext**

boolean hasNext()

function to check if there is a next element

Returns:

true if there is a next element

◦ **next**

[I](#) next()

function to get the next element

Returns:
next element

- **begin**

[T](#) begin()
begin: sets the iterator to the first element

Returns:
first element

- **end**

[T](#) end()
end: sets the iterator to the last element

Returns:
last element

- **current**

[T](#) current()
current: returns the current element

Returns:
current element

- **toString**

public [String](#) toString()
toString method

Overrides:
[toString](#) in class [Object](#)

Returns:
string representation of the iterator