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SEARCH

reset

# Class `java.lang.Object`

[java.lang.Object](#)  
`java.lang.Object`

Type Parameters:  
`T` - type of the vector

All Implemented Interfaces:  
[java.lang.Object](#)

`public class java.lang.Object` extends [Object](#) implements [Comparable](#)  
`java.lang.Object` Class implements `Comparable` interface

## Field Summary

Fields  
Modifier and Type  
Field  
Description  
`private Object[]`  
[array](#)  
array of `Object`  
`private int`  
[capacity](#)  
capacity of `Object`  
`private int`  
[size](#)  
size of `Object`

## Constructor Summary

Constructors  
Constructor  
Description  
[Object](#)(`int` \_capacity)

constructor creates an empty vector sized 0

## • Method Summary

All Methods

Instance Methods

Concrete Methods

Modifier and Type

Method

Description

void

[add\(T item\)](#)

adds @param item to the vector

private void

[addCap\(\)](#)

increases capacity by multiplying it with 2 copies the old array to the new one

boolean

[equals\(JavaVector<T> other\)](#)

overloaded equals method checks if two vectors are equal

[Iterator<T>](#)

[getIterator\(\)](#)

returns an iterator for the container

private boolean

[isIn\(T item\)](#)

checks if the element is in the vector

void

[remove\(T item\)](#)

removes @param item from the vector

int

[size\(\)](#)

returns the number of elements in the container

[String](#)

[toString\(\)](#)

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

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

## • Field Details

### ◦ capacity

private int capacity

capacity of JavaVector

### ◦ size

private int size

size of JavaVector

### ◦ array

private [Object](#)[] array

array of JavaVector

## • Constructor Details

### ◦ [JavaVector](#)

public [JavaVector](#)(int \_capacity)

constructor creates an empty vector sized 0

Parameters:

\_capacity - capacity of the vector

## • Method Details

### ◦ equals

public boolean equals([JavaVector<T>](#) other)

overloaded equals method checks if two vectors are equal

Parameters:  
    other - other vector  
Returns:  
    true if they are equal

- **add**

public void add([T](#) item)  
adds @param item to the vector

Specified by:  
    [add](#) in interface [JavaContainer<T>](#)

Parameters:  
    item - element to be added

- **remove**

public void remove([T](#) item)  
removes @param item from the vector

Specified by:  
    [remove](#) in interface [JavaContainer<T>](#)

Parameters:  
    item - element to be removed

- **size**

public int size()  
Description copied from interface: [JavaContainer](#)  
returns the number of elements in the container

Specified by:  
    [size](#) in interface [JavaContainer<T>](#)

Returns:  
    size of the vector

- **getIterator**

public [Iterator<T>](#) getIterator()  
Description copied from interface: [JavaContainer](#)  
returns an iterator for the container

Specified by:  
    [getIterator](#) in interface [JavaContainer<T>](#)

Returns:  
    iterator of the vector

- **toString**

public [String](#) toString()

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

Returns:  
    string representation of the vector

- **isIn**

private boolean isIn([T](#) item)  
checks if the element is in the vector

Parameters:  
    item - element to be checked  
Returns:  
    true if the element is in the vector

- **addCap**

private void addCap()  
increases capacity by multiplying it with 2 copies the old array to the new one