

Package [GtuContainer](#)

Class **JavaVector<T>**

[java.lang.Object](#)  
[GtuContainer.JavaVector<T>](#)

Type Parameters:  
T - the type of elements held in the vector.

All Implemented Interfaces:  
[JavaContainer<T>](#)

```
public class JavaVector<T>
extends Object
implements JavaContainer<T>
```

A generic implementation of [JavaContainer](#) using a dynamically resizing array.

**Constructor Summary**

Constructors	
Constructor	Description
<b>JavaVector</b> ( )	Constructs a new <a href="#">JavaVector</a> with an initial capacity of 10.
<b>JavaVector</b> (int cap)	Constructs a new <a href="#">JavaVector</a> with given capacity.

**Method Summary**

All Methods	Instance Methods	Concrete Methods
Modifier and Type	Method	Description
void	<b>add</b> (T element)	Adds an element to the container.
<b>JavaVector&lt;T&gt;</b>	<b>clone</b> ( )	Creates and returns a clone of the <a href="#">JavaSet</a> .
boolean	<b>equals</b> ( <a href="#">Object</a> element)	
<b>Iterator&lt;T&gt;</b>	<b>getIterator</b> ( )	Returns an iterator over the elements in the container.
void	<b>remove</b> (T element)	Removes an element from the container.
int	<b>size</b> ( )	Returns the size of the container.
<b>String</b>	<b>toString</b> ( )	

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

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

## Constructor Details

### JavaVector

```
public JavaVector()
```

Constructs a new JavaVector with an initial capacity of 10.

### JavaVector

```
public JavaVector(int cap)
```

Constructs a new JavaVector with given capacity.

**Parameters:**

cap - Initial capacity of the Vector.

## Method Details

### add

```
public void add(T element)
```

**Description copied from interface: [JavaContainer](#)**

Adds an element to the container.

**Specified by:**

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

**Parameters:**

element - the element to be added.

### remove

```
public void remove(T element)
```

**Description copied from interface: [JavaContainer](#)**

Removes an element from the container.

**Specified by:**

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

**Parameters:**

element - the element to be removed.

## size

```
public int size()
```

### Description copied from interface: **JavaContainer**

Returns the size of the container.

#### Specified by:

`size` in interface **JavaContainer**<T>

#### Returns:

the size of the container.

## toString

```
public String↗ toString()
```

#### Overrides:

`toString↗` in class **Object**<sup>↗</sup>

## equals

```
public boolean equals(Object↗ element)
```

#### Overrides:

`equals↗` in class **Object**<sup>↗</sup>

## clone

```
public JavaVector<T> clone()
```

Creates and returns a clone of the JavaSet.

#### Overrides:

`clone↗` in class **Object**<sup>↗</sup>

#### Returns:

clone of the JavaSet.

## getIterator

```
public Iterator↗<T> getIterator()
```

### Description copied from interface: **JavaContainer**

Returns an iterator over the elements in the container.

#### Specified by:

`getIterator` in interface **JavaContainer**<T>

**Returns:**

an iterator over the elements in the container.