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## Class `JavaSet<T extends java.lang.Comparable<T>>`

- `java.lang.Object`
  - `JavaSet<T>`
  
- Type Parameters:
  - `T` - The type of elements in the set, must extend `Comparable` for sorting.

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

```
public class JavaSet<T extends java.lang.Comparable<T>>
extends java.lang.Object
implements javaContainer<T>
```

A generic set implementation that supports adding, removing, and iterating over elements.

- ◦ **Constructor Summary**

Constructors

**Constructor Description**

[JavaSet\(\)](#) Constructs an empty set with an initial capacity of 10.

- **Method Summary**

All Methods [Static Methods](#) [Instance Methods](#) [Concrete Methods](#)

Modifier and Type	Method	Description
void	<a href="#">add(T element)</a>	Adds the specified element to the set if it is not already present.
boolean	<a href="#">equals(java.lang.Object obj)</a>	
<a href="#">MyIterator&lt;T&gt;</a>	<a href="#">getIterator()</a>	Returns an iterator over the elements in the set.
int	<a href="#">hashCode()</a>	
static void	<a href="#">main</a> ( <a href="#">java.lang.String[] args</a> )	The main method to interactively test the <code>JavaSet</code> .
void	<a href="#">remove(T element)</a>	Removes the specified element from the set.
int	<a href="#">size()</a>	
<a href="#">java.lang.String</a>	<a href="#">toString()</a>	

- **Methods inherited from class `java.lang.Object`**

`clone`, `finalize`, `getClass`, `notify`, `notifyAll`, `wait`, `wait`, `wait`

- ◦ **Constructor Detail**

- **JavaSet**

```
public JavaSet()
```

Constructs an empty set with an initial capacity of 10.

- **Method Detail**

- **add**

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

Adds the specified element to the set if it is not already present. Elements are added in sorted order.

Specified by:

[add](#) in interface [javaContainer](#)<[T](#)> extends [java.lang.Comparable](#)<[T](#)>>

Parameters:

element - The element to be added to the set.

Throws:

[java.lang.IllegalStateException](#) - If the element is already present in the set.

- **remove**

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

Removes the specified element from the set.

Specified by:

[remove](#) in interface [javaContainer](#)<[T](#)> extends [java.lang.Comparable](#)<[T](#)>>

Parameters:

element - The element to be removed from the set.

Throws:

[java.util.NoSuchElementException](#) - If the element is not found in the set.

- **size**

```
public int size()
```

Specified by:

[size](#) in interface [javaContainer](#)<[T](#)> extends [java.lang.Comparable](#)<[T](#)>>

- **getIterator**

```
public MyIterator<T> getIterator()
```

Returns an iterator over the elements in the set.

Specified by:

[getIterator](#) in interface [javaContainer](#)<[T](#)> extends [java.lang.Comparable](#)<[T](#)>>

Returns:

An iterator.

- **equals**

```
public boolean equals(java.lang.Object obj)
```

Overrides:

[equals](#) in class [java.lang.Object](#)

- **toString**

```
public java.lang.String toString()
```

Overrides:

[toString](#) in class [java.lang.Object](#)

- **hashCode**

```
public int hashCode()
```

Overrides:

[hashCode](#) in class [java.lang.Object](#)

- **main**

```
public static void main(java.lang.String[] args)
```

The main method to interactively test the `JavaSet`.

Parameters:

args - The command line arguments (not used).

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