

JAVA.UTIL.HASHSET CLASS

http://www.tutorialspoint.com/java/util/java_util_hashset.htm

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Introduction

The **java.util.HashSet** class implements the Set interface, backed by a hash table. Following are the important points about HashSet:

- This class makes no guarantees as to the iteration order of the set; in particular, it does not guarantee that the order will remain constant over time.
- This class permits the null element.

Class declaration

Following is the declaration for **java.util.HashSet** class:

```
public class HashSet<E>
    extends AbstractSet<E>
    implements Set<E>, Cloneable, Serializable
```

Parameters

Following is the parameter for **java.util.HashSet** class:

- **E** -- This is the type of elements maintained by this set.

Class constructors

S.N.	Constructor & Description
1	HashSet This constructs a new, empty set; the backing HashMap instance has default initial capacity 16 and load factor 0.75.
2	HashSetCollection < ? extends E > c This constructs a new set containing the elements in the specified collection.
3	HashSet intinitialCapacity This constructs a new, empty set; the backing HashMap instance has the specified initial capacity and default load factor 0.75.
4	HashSet intinitialCapacity, floatloadFactor This constructs a new, empty set; the backing HashMap instance has the specified initial capacity and the specified load factor.

Class methods

S.N.	Method & Description
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1

[boolean addEe](#)

This method adds the specified element to this set if it is not already present.

2

[void clear](#)

This method removes all of the elements from this set.

3

[Object clone](#)

This method returns a shallow copy of this HashSet instance, the elements themselves are not cloned.

4

[boolean containsObjecto](#)

This method returns true if this set contains the specified element.

5

[boolean isEmpty](#)

This method returns true if this set contains no elements.

6

[Iterator<E> iterator](#)

This method returns an iterator over the elements in this set.

7

[boolean removeObjecto](#)

This method removes the specified element from this set if it is present.

8

[int size](#)

This method returns returns the number of elements in this set *itscardinality*.

Methods inherited

This class inherits methods from the following classes:

- java.util.AbstractSet
- java.util.AbstractCollection
- java.util.Object
- java.util.Set