

JAVA.UTIL.WEAKHASHMAP CLASS

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

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Introduction

The **java.util.WeakHashMap** class is a hashtable-based **Map** implementation with weak keys. An entry in a WeakHashMap will automatically be removed by the garbage collector, when its key is no longer in use. Following are the important points about WeakHashMap:

- Both null values and the null key are supported.
- Like most collection classes, this class is also not synchronized.
- This class is intended primarily for use with key objects whose equals methods test for object identity using the `==` operator.
- Each key object in a WeakHashMap is stored indirectly as the referent of a weak reference.
- This class is a member of the Java Collections Framework.

Class declaration

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

```
public class WeakHashMap<K,V>  
    extends AbstractMap<K,V>  
    implements Map<K,V>
```

Here **<K>** is the type of keys maintained by this map and **<V>** is the type of mapped values.

Class constructors

S.N.	Constructor & Description
1	WeakHashMap This constructor is used to create an empty WeakHashMap with the default initial capacity 16 and load factor 0.75.
2	WeakHashMap(intinitialCapacity) This constructor is used to create an empty WeakHashMap with the given initial capacity and the default load factor 0.75.
3	WeakHashMap(intinitialCapacity, floatloadFactor) This constructor is used to create an empty WeakHashMap with the given initial capacity and the given load factor.
4	WeakHashMapMap < ? extendsK, ? extendsV > m This constructor is used to create a new WeakHashMap with the same mappings as the specified map.

Class methods

S.N.	Method & Description
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1

[void clear](#)

This method removes all of the mappings from this map.

2

[boolean containsKeyObjectkey](#)

This method returns true if this map contains a mapping for the specified key.

3

[boolean containsValueObjectvalue](#)

This method returns true if this map maps one or more keys to the specified value.

4

[Set<Map.Entry>K,V>> entrySet](#)

This method returns a Set view of the mappings contained in this map.

5

[v getObjectkey](#)

This method returns the value to which the specified key is mapped, or null if this map contains no mapping for the key.

6

[boolean isEmpty](#)

This method returns true if this map contains no key-value mappings.

7

[Set<K> keySet](#)

This method returns a Set view of the keys contained in this map.

8

[v putKkey, Vvalue](#)

This method associates the specified value with the specified key in this map.

9

[void putAllMap < ?extendsK, ?extendsV > m](#)

This method copies all of the mappings from the specified map to this map.

10

[v removeObjectkey](#)

This method removes the mapping for a key from this weak hash map if it is present.

11

[int size](#)

This method returns the number of key-value mappings in this map.

12

[Collection<V> values](#)

This method returns a Collection view of the values contained in this map.

Methods inherited

This class inherits methods from the following classes:

- java.util.AbstractMap
- java.lang.Object
- java.util.Map

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