PACKAGE CLASS USE TREE DEPRECATED INDEX HELP

PREV CLASS NEXT CLASS FRAMES N

FRAMES NO FRAMES ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

# Class HashMap<K,V>

java.lang.Object HashMap<K,V>

public class HashMap<K,V>
extends java.lang.Object

# **Constructor Summary**

# **Constructors**

# **Constructor and Description**

# HashMap()

constructs an empty HashMap with the default initial capcity (7) and the default load factor (0.5)

### HashMap(int cap)

Constructs an empty HashMap with the specified inital capacity and the default load factor (0.5)

HashMap(int cap, double lf)

# **Method Summary**

All Methods	Instance Methods	Concrete Methods		
Modifier and Ty	pe Method and Des	Method and Description		
void	<pre>clear() removes all map</pre>	<pre>clear() removes all mappings from the map.</pre>		
boolean	Using the same	<pre>containsKey(K key) Using the same quadratic probing to determine if there is an entry with matching key</pre>		
boolean		<pre>containsValue(V value) Return trues true if there is an entry with matching value</pre>		
boolean	<pre>isEmpty() Returns true if t</pre>	<pre>isEmpty() Returns true if the map is empty and false otherwise</pre>		

# Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, wait, wait, wait

### **Constructor Detail**

## **HashMap**

```
public HashMap()
```

constructs an empty HashMap with the default initial capcity (7) and the default load factor (0.5)

# HashMap

Constructs an empty HashMap with the specified inital capacity and the default load factor (0.5)

### **Parameters:**

```
cap - - the initial capacity
```

### **Throws:**

java.lang.IllegalArgumentException - - if the inital capcity is negative

# HashMap

### **Parameters:**

```
cap - - the initial capacity
```

lf - - the load factor

# Throws:

java.lang.IllegalArgumentException - - if the inital capcity is negative or load factor is nonpositive

### Method Detail

### put

Associate a value with a key in the map. If the map previously contained a mapping for the key, the old value is replaced

#### **Parameters:**

key - - key with which the specified value is to be associated

value - - value to be associated with the specified key

### **Returns:**

the previous value associated with key, or null if there was no mapping for the key. (A null return can also indicate that the map previously associated null with key).

### containsKey

public boolean containsKey(K key)

Using the same quadratic probing to determine if there is an entry with matching key

## **Parameters:**

key - - the key whose presence in the map is to be tested

#### **Returns:**

true if this map contains a mapping for the specified key, false otherwise

# containsValue

public boolean containsValue(V value)

Return trues true if there is an entry with matching value

### **Parameters:**

value - - the value whose presence in the map is to be tested

### **Returns:**

true if this map maps one or more keys to the specified value

#### size

public int size()

Returns the number of key-value pairs in this map

### **Returns:**

number of key-value pairs in this map

# **isEmpty**

public boolean isEmpty()

Returns true if the map is empty and false otherwise

### **Returns:**

true if this map contains no key-value pairs

#### clear

public void clear()

removes all mappings from the map. The map will be empty after this call returns

# toString

public java.lang.String toString()

returns a string representation of the map

### **Overrides:**

toString in class java.lang.Object

### **Returns:**

a string representation of the map

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PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

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