Class java.util.Dictionary

```
java.lang.Object
   |
   +----java.util.Dictionary
```

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public class **Dictionary**
extends Object

The Dictionary class is the abstract parent of Hashtable, which maps keys to values. Any object can be used as a key and/or value.

See Also:
Hashtable, hashcode, equals
Version:
1.1, 07 Aug 1995

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o **Dictionary**()

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o **elements**()
Returns an enumeration of the elements.
o **get**(Object)
Gets the object associated with the specified key in the Dictionary.
o **isEmpty**()
Returns true if the Dictionary contains no elements.
o **keys**()
Returns an enumeration of the Dictionary's keys.
o **put**(Object, Object)
Puts the specified element into the Dictionary, using the specified key.
o **remove**(Object)
Removes the element corresponding to the key.
o **size**()
Returns the number of elements contained within the Dictionary.

Constructors

o **Dictionary**

```
public Dictionary()
```

Methods

o **size**

```
public abstract int size()
```

Returns the number of elements contained within the Dictionary.

o **isEmpty**

```
public abstract boolean isEmpty()
```

Returns true if the Dictionary contains no elements.

o **keys**

```
public abstract Enumeration keys()
```

Returns an enumeration of the Dictionary's keys.
See Also:
elements, Enumeration

o **elements**

```
public abstract Enumeration elements()
```

Returns an enumeration of the elements. Use the Enumeration methods on the returned object to fetch the elements sequentially.
See Also:
keys, Enumeration

o **get**

```
public abstract Object get(Object key)
```

Gets the object associated with the specified key in the Dictionary.
Parameters:
key – the key in the hash table
Returns:
the element for the key or null if the key is not defined in the hash table.
See Also:
put

o **put**

```
public abstract Object put(Object key,
                           Object value)
```

Puts the specified element into the Dictionary, using the specified key. The element may be retrieved by doing a get() with the same key. The key and the element cannot be null.

Parameters:

key – the specified hashtable key

value – the specified element

Returns:

the old value of the key, or null if it did not have one.

Throws: NullPointerException

If the value of the specified element is null.

See Also:

get

o **remove**

```
public abstract Object remove(Object key)
```

Removes the element corresponding to the key. Does nothing if the key is not present.

Parameters:

key – the key that needs to be removed

Returns:

the value of key, or null if the key was not found.