

JAVA.UTIL.PRIORITYQUEUE.TOARRAY METHOD

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

Copyright © tutorialspoint.com

Description

The **toArray(T[] a)** method is used to return an array containing all of the elements in this queue.

Declaration

Following is the declaration for **java.util.PriorityQueue.toArray** method.

```
public <T> T[] toArray(T[] a)
```

Parameters

- **a** -- The array into which the elements of the queue are to be stored.

Return Value

- The method call returns an array containing all of the elements in this queue.

Exception

- **ArrayStoreException** -- Throws if the runtime type of the specified array is not a supertype of the runtime type of every element in this queue.
- **NullPointerException** -- Throws if the specified array is null.

Example

The following example shows the usage of `java.util.PriorityQueue.toArray`

```
package com.tutorialspoint;

import java.util.*;

public class PriorityQueueDemo {
    public static void main(String args[]) {
        // create priority queue
        PriorityQueue < Integer > prq = new PriorityQueue < Integer > ();

        // insert values in the queue
        prq.add(6);
        prq.add(9);
        prq.add(5);
        prq.add(64);
        prq.add(6);

        System.out.println ( "Priority queue values are: "+ prq);

        // create arr1
        Integer[] arr1 = new Integer[5];

        // use toArray() method
        Integer[] arr2 = prq.toArray(arr1);

        System.out.println ( "Value in arr1: ");

        for ( int i = 0; i<arr1.length; i++ ){
            System.out.println ( "Value: " + arr1[i] );
        }

        System.out.println ( "Value in arr2: ");
    }
}
```

```
for ( int i = 0; i<arr2.length; i++ ){  
    System.out.println ( "Value: " + arr2[i]) ;  
}  
}
```

Let us compile and run the above program, this will produce the following result.

```
Priority queue values are: [5, 6, 6, 64, 9]  
Value in arr1:  
Value: 5  
Value: 6  
Value: 6  
Value: 64  
Value: 9  
Value in arr2:  
Value: 5  
Value: 6  
Value: 6  
Value: 64  
Value: 9
```

Loading [MathJax]/jax/output/HTML-CSS/fonts/TeX/fontdata.js