JAVA.UTIL.PRIORITYQUEUE.ITERATOR METHOD

Description

The **iterator** method is used to return an iterator over the elements in this queue. The iterator does not return the elements in any particular order.

Declaration

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

```
public Iterator<E> iterator()
```

Parameters

- **NA**

Return Value

- The method call returns an iterator over the elements in this queue.

Exception

- **NA**

Example

The following example shows the usage of java.util.PriorityQueue.iterator

```
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
   for ( int i = 0; i  <  10; i++ ){
   prq.add (new Integer (i)) ;
   }

   // create iterator from the queue
   Iterator it = prq.iterator();

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

   while (it.hasNext()){
   System.out.println ( "Value: "+ it.next());
   }
   }
}
```

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

```
Priority queue values are:
Value: 0
Value: 1
Value: 2
Value: 3
Value: 4
```

```
Value: 5
Value: 6
Value: 7
Value: 8
Value: 9
```

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```
Value: 5
Value: 6
Value: 7
Value: 8
Value: 9
```