```
package hw06;
/**
 * @author ahmedius
* @param <E>
public interface PriorityQueue<E>{
    /**
    * Insert an item into the priority queue.
     * @param item The item to be inserted
     * @return boolean, is item inserted or not
    * @throws NullPointerException if the item to be inserted is null.
    public boolean offer(E item);
    /**
    * Remove an item from the priority queue.
    * @return The item with the smallest priority. If queue is empty,
    * throw exception.
    public E remove();
     * Remove an item from the priority queue.
     * @return The item with the smallest priority value or null if empty.
    public E poll();
    //Get smallest element, if queue is empty, return null.
    public E peek();
   //Get smallest element, if queue is empty, throw exception.
    public E element();
}
```