```
public boolean search(E item) {
      for (E element : theData) {
             if (compare(element, item) == 0) { \rightarrow 0(1)
                   return true;
             }
      return false; - 0(1)
}
public void merge(MyPriorityQueue<E> anotherHeap) {
     int size = anotherHeap.size(); → ▷(1)
     for (int i = 0; i < size; ++i) {
          offer(anotherHeap.poll()); 70(logm)) Ollogmi)
}
public E removeIthLargest(int i) {
   if (i < 1 || i > theData.size()) { '
      return null;
   \underline{\mathbf{i}} = (theData.size() + 1) - \underline{\mathbf{i}}; // ith largest element is (n+1-i)th smallest element \rightarrow \Xi(4)
   ArrayList<E> temp = new ArrayList<>();
   for (int j = 0; j < \underline{i}; ++\underline{j}) { \rightarrow O(\cap)
                                       40(n Logn)
       temp.add(this.poll());
       B(1)" Ollogn)
   E ithLargest = temp.remove(index: temp.size()-1); → () 1
   // Offer the unnecessarily deleted items
   for (E itemToBeAdded : temp) { → ○(n)
      this.offer(itemToBeAdded);
   return ithLargest;
}-
```