```
package com.wipro;
import java.util.LinkedList;
import java.util.Queue;
import java.util.Stack;
public class QUEUESort oneStack {
          public static void sortQueue(Queue<Integer> queue) {
               Stack<Integer> stack = new Stack<>();
               while (!queue.isEmpty()) {
                   int current = queue.poll();
                   while (!stack.isEmpty() && stack.peek() < current) {</pre>
                       queue.offer(stack.pop());
                   }
                  stack.push(current);
               while (!stack.isEmpty()) {
                   queue.offer(stack.pop());
               }
          }
          public static void main(String[] args) {
               Queue<Integer> queue = new LinkedList<>();
               queue.offer(289);
               queue.offer(96);
               queue.offer(64);
               queue.offer(104);
               queue.offer(44);
               queue.offer(89);
               System.out.println("Queue before sorting: " + queue);
              sortQueue(queue);
              System.out.println("Queue after sorting: " + queue);
          }
      }
```

```
= □ 🕢 *Linkedlist...
                                                                                     ② RemoveDuplic... ② Stacksort,java ② LinkedListMi... ② MEREGESORTED... ② QUEUESort_o... ⋈ "31 □ 등 Outline ⋈

□ ↓a<sub>Z</sub> \( \nabla 
                         7 public class QUEUESort_oneStack {

⊕ com.wipro

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                                                                               • sortQueue(Queue<Integer>): void
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                                                                                                                      int current = queue.poll();
while (!stack.isEmpty() && stack.peek() < current) {</pre>
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                                                                                                                                         queue.offer(stack.pop());
                                                                                                                 stack.push(current);
                                                                        (!stack.isEmpty()) {
    queue.offer(stack.pop());
}
                                                                                 public static void main(String[] args) {
                                                                                                 Queue.offer(96);
queue.offer(104);
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                                                                                                      queue.offer(44);
                                                                                                    queue.offer(89);
                                                                                                     System.out.println("Queue before sorting: " + queue);
                                                                                                    sortQueue(queue);
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Properties Console □ Console □ Coverage
                       \label{thm:constraint} $$\operatorname{QUEUESort}_{OneStack\ [Java\ Application]}\ C_{Users\ Nikita\ p2\ pool\ plugins\ org. eclipse\ justj. openjdk hotspot, jre. full.win32.x86\_64\_16.0.2.v20210721-1149\ yire\ bin\ javaw.exe\ (Jun\ 4, 2024, 11:31:21\ AM-64.2.0.2.v20210721-1149\ yire\ bin\ javaw.exe\ (Jun\ 4, 2024, 11:31:21)\ yire\ bin\ javaw.exe\ (Jun\ 4, 202
                     Queue before sorting: [289, 96, 64, 104, 44, 89]
Queue after sorting: [44, 64, 89, 96, 104, 289]
```