```
1import java.util.Arrays;
 2import java.util.Comparator;
 3
4import components.queue.Queue;
5import components.queue.Queue1L;
6import components.simplewriter.SimpleWriter;
7import components.simplewriter.SimpleWriter1L;
8
9 / * *
10 * Simple HelloWorld program (clear of Checkstyle and
  FindBugs warnings).
11 *
12 * @author Sam Espanioly
13 */
14 public final class practice {
15
      /**
16
       * Default constructor--private to prevent
17
  instantiation.
18
       */
      private practice(
19
          // no code needed here
20
21
22
      /**
23
       * Reports the smallest integer in the given {@code
24
  Queue<Integer>}.
25
26
         @param q
       *
                    the queue of integer
27
       * @return the smallest integer in the given queue
28
       * @requires q /= empty_string
29
30
       * @ensures 
       * min is in entries(q) and
31
```

```
* for all x: integer
32
             where (x is in entries(q))
33
34
           (min <= x)
35
       * 
36
       */
37
      private static int min(Queue<Integer> q) {
38
          int len = q.length();
          int minn = Integer.MAX_VALUE;
39
          Queue<Integer>[] x;
40
          // i need to practice using the for each loop but
41
  for now i use the regular for loop
          for (int i = 0; i < len; i++) {
42
               int temp = q.dequeue();
43
               if (temp < minn) {</pre>
44
45
                   minn = temp;
46
47
              q.enqueue(temp);
48
49
50
          return minn;
51
52
53
      //compareTo
54
      private static class IntegerLT implements
  Comparator<Integer>
55
          @Override
56
          public int compare(Integer o1, Integer o2) {
               if (o1 < o2) {
57
58
                   return -1;
59
               } else if (o1 > o2) {
60
                   return 1;
61
               else
62
                   return 0;
63
```

int temp1 = q.dequeue();

//minimum

93

94

149