

```

1  package assignmentMidterm02;
2
3  // Please see README.txt
4  // We will go over the answers in class.
5  // Thank you.
6
7  import java.util.PriorityQueue;
8
9  public class MidtermExam02B3 {
10
11     public static void pollPq(PriorityQueue<String> pq) {
12         int originalSize = pq.size();
13         for (int i = 0; i < originalSize; i++) {
14             System.out.print(pq.poll() + " ");
15         }
16     }
17
18     public static void main(String args[]) {
19         PriorityQueue<String> pq = new PriorityQueue<>();
20
21         pq.offer("C");
22         pq.add("O");
23         pq.offer("M");
24         pq.add("P");
25         // pollPq(pq); return; // C M O P
26
27         pq.offer(String.valueOf(pq.remove(pq.peek())));
28         // pollPq(pq); // M O P true
29
30         pq.add(String.valueOf(pq.contains("X")));
31         // pollPq(pq); // M O P false true
32
33         pq.add(String.valueOf(pq.contains(pq.remove())));
34         // pollPq(pq); // O P false false true
35
36         pq.offer(pq.remove());
37         // pollPq(pq); // O P false false true
38
39         pq.add(pq.peek());
40         // pollPq(pq); // O O P false false true
41     }
42 }
43 /* ANSWER
44 C M O P
45 M O P true
46 M O P false true
47 O P false false true
48 O P false false true
49 O O P false false true
50 */
51

```