TestNotes/pset1/LowestGrade.java

```java
 1   // LowestGrade.java
 2
 3   /**
 4    * PSET1: Exercise 6
 5    * Iterative method that removes lowest grade in an array.
 6    *
 7    * @author Kuljit Takhar
 8    * @version Last modified 15_Sept_2023
 9    *
10    **/
11
12   public class LowestGrade {
13       public static void main(String[] args) {
14           int[] a = removeLowest(23, 90, 47, 55, 88);
15           int[] b = removeLowest(85);
16           int[] c = removeLowest();
17           int[] d = removeLowest(59, 92, 93, 47, 88, 47);
18
19           System.out.println("a = " + arrayPrint(a));
20           System.out.println("b = " + arrayPrint(b));
21           System.out.println("c = " + arrayPrint(c));
22           System.out.println("d = " + arrayPrint(d));
23       }
24
25       public static int[] removeLowest(int... scores) {
26           if (scores.length == 0) {
27               return new int[0];
28           }
29
30           int lowest = scores[0];
31           int count = 1;
32
33           for (int i = 1; i < scores.length; i++) {
34               if (scores[i] < lowest) {
35                   lowest = scores[i];
36               } else if (scores[i] > lowest) {
37                   count++;
38               }
39           }
40
41           int[] result = new int[count];
42           int index = 0;
43
44           for (int score : scores) {
45               if (score != lowest) {
46                   result[index] = score;
47                   index++;
48               }
49           }
50           return result;
51       }
52
53       public static String arrayPrint(int[] arr) {
```

```java
54            if (arr.length == 0) {
55                return "[]";
56            }
57
58            StringBuilder sb = new StringBuilder("[");
59            for (int i = 0; i < arr.length - 1; i++) {
60                sb.append(arr[i]).append(", ");
61            }
62            sb.append(arr[arr.length - 1]).append("]");
63            return sb.toString();
64        }
65    }
66
```