

Our Solution(s)

Run Code

Your Solutions

Run Code

Solution 1

Solution 2

Solution 3

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 import java.util.*;
4 import java.util.stream.*;
5
6 // O(n) time | O(n) space - where n is the length of the input array
7 class Program {
8     public static int minRewards(int[] scores) {
9         int[] rewards = new int[scores.length];
10        Arrays.fill(rewards, 1);
11        List<Integer> localMinIdxs = getLocalMinIdxs(scores);
12        for (Integer localMinIdx : localMinIdxs) {
13            expandFromLocalMinIdx(localMinIdx, scores, rewards);
14        }
15        return IntStream.of(rewards).sum();
16    }
17
18    public static List<Integer> getLocalMinIdxs(int[] array) {
19        List<Integer> localMinIdxs = new ArrayList<Integer>();
20        if (array.length == 1) {
21            localMinIdxs.add(0);
22            return localMinIdxs;
23        }
24        for (int i = 0; i < array.length; i++) {
25            if (i == 0 && array[i] < array[i + 1]) localMinIdxs.add(i);
26            if (i == array.length - 1 && array[i] < array[i - 1]) localMinIdxs.add(i);
27            if (i == 0 || i == array.length - 1) continue;
28            if (array[i] < array[i + 1] && array[i] < array[i - 1]) localMinIdxs.add(i);
29        }
30        return localMinIdxs;
31    }
32
33    public static void expandFromLocalMinIdx(int localMinIdx, int[] scores, int[] rewards) {
34        int left = localMinIdx - 1;
35        int right = localMinIdx + 1;
36        while (left >= 0 && scores[left] <= scores[localMinIdx]) left--;
37        while (right < scores.length && scores[right] <= scores[localMinIdx]) right++;
38        for (int i = left + 1; i < right; i++) {
39            rewards[i] = Math.max(rewards[i], rewards[localMinIdx] + 1);
40        }
41    }
42}
```

Solution 1

Solution 2

Solution 3

```
1 class Program {
2     public static int minRewards(int[] scores) {
3         // Write your code here.
4         return -1;
5     }
6 }
7
```

Our Tests

Custom Output

Submit Code

```
1 class Program {
2     public static int minRewards(int[] scores) {
3         // Write your code here.
4         return -1;
5     }
6 }
```

```

10 #print
11 #print testFunction()
12 #this assertion program will assert(10, 10) == 10
13 }
14
15 #print
16 #print testFunction()
17 #this assertion program will assert(10, 10) == 10
18 }
19
20 #print
21 #print testFunction()
22 #this assertion program will assert(10, 10, 10, 10) == 10
23 }
24
25

```

Run or submit code when you're ready.