AlgoExpert Quad Layout Java 12px Sublime Monokai 00:00:00

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

Solution 1

```
_{\rm 1} // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
   import java.util.*;
 5 class Program {
     // O(n) time | O(n) space
      public static int[] largestRange(int[] array) {
        int[] bestRange = new int[2];
        int longestLength = 0;
10
        Map<Integer, Boolean> nums = new HashMap<Integer, Boolean>();
11
        for (int num : array) {
         nums.put(num, true);
12
13
        \quad \quad \text{for (int num : array) } \{
14
15
          if (!nums.get(num)) {
16
           continue;
17
18
          nums.put(num, false);
          int currentLength = 1;
19
20
          int left = num - 1;
21
          int right = num + 1;
22
          while (nums.containsKey(left)) {
23
            nums.put(left, false);
24
            currentLength++;
25
            left--;
26
          while (nums.containsKey(right)) {
27
            nums.put(right, false);
28
29
            currentLength++;
30
            right++;
31
          \quad \textbf{if} \ (\texttt{currentLength} \ \gt \ \texttt{longestLength}) \ \{\\
32
33
            longestLength = currentLength;
34
            bestRange = new int[] {left + 1, right - 1};
35
36
37
        return bestRange;
38
39 }
```