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

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

Solution 1

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```
1\, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
 3 class Program {
     // O(n) time | O(1) space
      public static int[] subarraySort(int[] array) {
       int minOutOfOrder = Integer.MAX_VALUE;
        int maxOutOfOrder = Integer.MIN_VALUE;
        for (int i = 0; i < array.length; i++) \{
         int num = array[i];
10
         if (isOutOfOrder(i, num, array)) {
           minOutOfOrder = Math.min(minOutOfOrder, num);
11
            maxOutOfOrder = Math.max(maxOutOfOrder, num);
12
13
14
        if (minOutOfOrder == Integer.MAX_VALUE) {
15
16
         return new int[] {-1, -1};
17
18
        int subarrayLeftIdx = 0;
        while (minOutOfOrder >= array[subarrayLeftIdx]) {
19
20
          subarrayLeftIdx++;
21
22
        int subarrayRightIdx = array.length - 1;
23
        while (maxOutOfOrder <= array[subarrayRightIdx]) {</pre>
24
         subarrayRightIdx--;
25
26
       return new int[] {subarrayLeftIdx, subarrayRightIdx};
27
28
29
      public static boolean isOutOfOrder(int i, int num, int[] array) {
30
       if (i == 0) {
31
         return num > array[i + 1];
32
        if (i == array.length - 1) {
33
34
         return num < array[i - 1];</pre>
35
        return num > array[i + 1] || num < array[i - 1];</pre>
36
37
38 }
```