AlgoExpert Quad Layout C# 12px Sublime Monokai 00:00:00

Prompt Scratchpad Our Solution(s) Video Explanation Run Code

Solution 1

```
1\, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
 3 using System;
 4 public class Program {
     // O(n) time | O(1) space
     public static int[] SubarraySort(int[] array) {
       int minOutOfOrder = Int32.MaxValue;
        int maxOutOfOrder = Int32.MinValue;
        for (int i = 0; i < array.Length; i++) \{
10
         int num = array[i];
         if (isOutOfOrder(i, num, array)) {
11
12
           minOutOfOrder = Math.Min(minOutOfOrder, num);
13
            maxOutOfOrder = Math.Max(maxOutOfOrder, num);
14
15
        if (minOutOfOrder == Int32.MaxValue) {
16
          return new int[] {-1, -1};
17
18
19
        int subarrayLeftIdx = 0;
20
        while (minOutOfOrder >= array[subarrayLeftIdx]) {
21
         subarrayLeftIdx++;
22
23
        int subarrayRightIdx = array.Length - 1;
24
        while (maxOutOfOrder <= array[subarrayRightIdx]) {</pre>
25
         subarrayRightIdx--;
26
       return new int[] {subarrayLeftIdx, subarrayRightIdx};
27
28
29
      public static bool isOutOfOrder(int i, int num, int[] array) {
30
31
        if (i == 0) {
32
         return num > array[i + 1];
33
34
        if (i == array.Length - 1) {
35
         return num < array[i - 1];</pre>
36
37
       return num > array[i + 1] || num < array[i - 1];</pre>
38
39 }
```