AlgoExpert Quad Layout Python 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 # O(n) time | O(1) space
 4 def subarraySort(array):
       minOutOfOrder = float("inf")
       maxOutOfOrder = float("-inf")
       for i in range(len(array)):
 8
           num = array[i]
           if isOutOfOrder(i, num, array):
9
10
              minOutOfOrder = min(minOutOfOrder, num)
              maxOutOfOrder = max(maxOutOfOrder, num)
11
       if minOutOfOrder == float("inf"):
12
13
         return [-1, -1]
       subarrayLeftIdx = 0
14
15
       while minOutOfOrder >= array[subarrayLeftIdx]:
16
           subarrayLeftIdx += 1
       subarrayRightIdx = len(array) - 1
17
       while maxOutOfOrder <= array[subarrayRightIdx]:</pre>
18
          subarrayRightIdx -= 1
19
       return [subarrayLeftIdx, subarrayRightIdx]
20
21
22
23 def isOutOfOrder(i, num, array):
24
       if i == 0:
25
           return num > array[i + 1]
26
       if i == len(array) - 1:
27
           return num < array[i - 1]</pre>
       return num > array[i + 1] or num < array[i - 1]</pre>
28
29
```