AlgoExpert Quad Layout Go 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.
   package main
 5 func QuickSort(array []int) []int {
     return helper(array, 0, len(array)-1)
8
9 func helper(array []int, start, end int) []int {
10
    if start >= end {
       return array
11
12
13
     pivot := start
14
15
      left := start + 1
     right := end
16
      for right >= left {
17
18
       if array[left] > array[pivot] && array[right] < array[pivot] {</pre>
         array[left], array[right] = array[right], array[left]
19
20
21
       if array[left] <= array[pivot] {</pre>
22
         left += 1
23
       if array[right] >= array[pivot] {
24
25
         right -= 1
26
27
28
29
      array[pivot], array[right] = array[right], array[pivot]
30
      if right-1-start < end-(right+1) {</pre>
31
       helper(array, start, right-1)
32
33
       helper(array, right+1, end)
34
       helper(array, right+1, end)
35
       helper(array, start, right-1)
36
37
38
     return array
39 }
```