AlgoExpert Quad Layout Swift 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(n) space
       func zigZagTraverse(array: [[Int]]) -> [Int] {
           var result = [Int]()
 8
           var goingDown = true
           var currentRow = 0
9
10
           var currentColumn = 0
11
           while currentRow < array.count, currentColumn < array[0].count {</pre>
12
13
               result.append(array[currentRow][currentColumn])
14
15
               if goingDown {
16
                   if currentColumn == 0 || currentRow == array.count - 1 {
17
                       goingDown = false
                       if currentRow == array.count - 1 {
18
                          currentColumn += 1
19
20
                       } else {
21
                          currentRow += 1
22
23
                   } else {
24
                       currentRow += 1
25
                       currentColumn -= 1
26
27
               } else {
                   if currentRow == 0 || currentColumn == array[0].count - 1 {
28
29
                       goingDown = true
30
                       if currentColumn == array[0].count - 1 {
31
                          currentRow += 1
                       } else {
32
33
                          currentColumn += 1
34
35
                   } else {
36
                       currentRow -= 1
                       currentColumn += 1
37
38
39
40
41
42
           return result
43
44 }
```