

Our Solution(s)Run Code

Your SolutionsRun Code

Solution 1Solution 2

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 class Program {
4     // O(n) time | O(n) space - where n is the total number of elements in the array
5     func spiralTraverse(array: [[Int]]) -> [Int] {
6         if array.count == 0 {
7             return []
8         }
9
10        var result = [Int]()
11        var startRow = 0
12        var endRow = array.count - 1
13        var startCol = 0
14        var endCol = array[0].count - 1
15
16        while startRow <= endRow & startCol <= endCol {
17            for col in stride(from: startCol, through: endCol, by: 1) {
18                result.append(array[startRow][col])
19            }
20
21            for row in stride(from: startRow + 1, through: endRow, by: 1) {
22                result.append(array[row][endCol])
23            }
24
25            for col in stride(from: endCol - 1, through: startCol, by: -1) {
26                if startRow == endRow {
27                    break
28                }
29                result.append(array[endRow][col])
30            }
31
32            for row in stride(from: endRow - 1, through: startRow, by: -1) {
33                if startCol == endCol {
```

Solution 1Solution 2Solution 3

```
1 class Program {
2     func spiralTraverse(array: [[Int]]) -> [Int] {
3         // Write your code here.
4         return []
5     }
6 }
7
```

```

1 def test1():
2     program = Program()
3     method("Test case 1")
4     input = [1]
5     expected = [1]
6     output = program.execute(input)
7     assertEquals(expected, output)
8
9     method("Test case 2")
10    input = [1, 2, 3, 4, 5]
11    expected = [1, 2, 3, 4, 5]
12    output = program.execute(input)
13    assertEquals(expected, output)
14
15    method("Test case 3")
16    input = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
17    expected = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
18    output = program.execute(input)
19    assertEquals(expected, output)

```

Run or submit code when you're ready.