

Our Solution(s)

Run Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 package main
4
5 // O(wh) time | O(wh) space
6 func RiverSizes(matrix [][]int) []int {
7     sizes := []int{}
8     visited := make([][]bool, len(matrix))
9     for i := range visited {
10         visited[i] = make([]bool, len(matrix[i]))
11     }
12     for i := range matrix {
13         for j := range matrix[i] {
14             if visited[i][j] {
15                 continue
16             }
17             sizes = traverseNode(i, j, matrix, visited, sizes)
18         }
19     }
20     return sizes
21 }
22
23 func traverseNode(i, j int, matrix [][]int, visited [][]bool, si
24     currentRiverSize := 0
25     nodesToExplore := [][]int{{i, j}}
26     for len(nodesToExplore) > 0 {
27         currentNode := nodesToExplore[0]
28         nodesToExplore = nodesToExplore[1:]
29         i, j := currentNode[0], currentNode[1]
30         if visited[i][j] {
31             continue
32         }
33         visited[i][j] = true
```

Our Tests

Your Solutions

Run Code

Solution 1

Solution 2

Solution 3

```
1 package main
2
3 func RiverSizes(matrix [][]int) []int {
4     // Write your code here.
5     return nil
6 }
7
```

Custom Output

Submit Code

```

17 import sys
18
19 # Read input
20 n = int(sys.stdin.readline())
21
22 # Initialize variables
23 left = 0
24 right = 0
25
26 # Read input
27 for i in range(1, n+1):
28     left += i
29     right += i
30
31 # Print result
32 print(left, right)

```

Run or submit code when you're ready.