Our Solution(s)

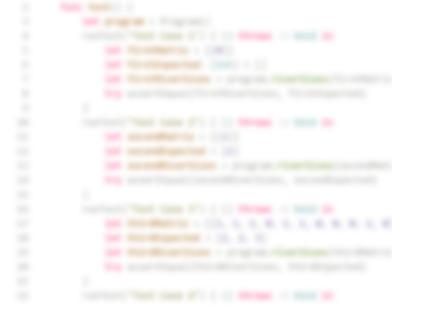
Run Code

Your Solutions

Run Code

```
Solution 1
 1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
 3
   class Program {
        // O(wh) time | O(wh) space
 5
        func riverSizes(_ matrix: [[Int]]) -> [Int] {
            var sizes: [Int] = []
 6
 7
            var visited: [[Bool]] = matrix.map { $0.map { $0 == 2 }
            for var i in 0 ..< matrix.count {</pre>
9
                for var j in 0 ..< matrix[i].count {</pre>
10
                    if visited[i][j] { continue }
11
                    traverseNode(i, j, matrix, &visited, &sizes)
12
13
            }
14
            return sizes
15
16
17
        func traverseNode(_ k: Int, _ l: Int, _ matrix: [[Int]], _ v
18
            var i = k
19
            var j = 1
20
            var currentRiverSize = 0
21
            var nodesToExplore = [[i, j]]
            while nodesToExplore.count > 0 {
23
                let currentNode = nodesToExplore.popLast()!
24
25
                i = currentNode[0]
26
                j = currentNode[1]
27
                if visited[i][j] { continue }
28
                visited[i][j] = true
29
30
                if matrix[i][j] == 0 { continue }
                currentRiverSize += 1
31
32
33
                let unvisitedNeighbors = getUnvisitedNeighbors(i, j,
```

```
class Program {
   func riverSizes(_ matrix: [[Int]]) -> [Int] {
      // Write your code here.
   return []
}
```



Run or submit code when you're ready.