

Our Solution(s)

Run Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 #include <vector>
4 using namespace std;
5
6 void traverseNode(int i, int j, vector<vector<int>> matrix,
7                  vector<vector<int>> *visited, vector<int> *si:
8 vector<vector<int>> getUnvisitedNeighbors(int i, int j,
9                                       vector<vector<int>> ma
10                                      vector<vector<int>> vi
11
12 // O(wh) time | O(wh) space
13 vector<int> riverSizes(vector<vector<int>> matrix) {
14     vector<int> sizes = {};
15     vector<vector<int>> visited(matrix.size(),
16                               vector<int>(matrix[0].size(), fals
17     for (int i = 0; i < matrix.size(); i++) {
18         for (int j = 0; j < matrix[i].size(); j++) {
19             if (visited[i][j]) {
20                 continue;
21             }
22             traverseNode(i, j, matrix, &visited, &sizes);
23         }
24     }
25     return sizes;
26 }
27
28 void traverseNode(int i, int j, vector<vector<int>> matrix,
29                  vector<vector<int>> *visited, vector<int> *siz
30     int currentRiverSize = 0;
31     vector<vector<int>> nodesToExplore{{i, j}};
32     while (nodesToExplore.size() != 0) {
33         vector<int> currentNode = nodesToExplore.back();
```

Your Solutions

Run Code

Solution 1

Solution 2

Solution 3

```
1 #include <vector>
2 using namespace std;
3
4 vector<int> riverSizes(vector<vector<int>> matrix) {
5     // Write your code here.
6     return {};
7 }
8
```

Custom Output

Submit Code

Run or submit code when you're ready.