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Question:

Your Solution **Our Solution** Run Code Input:

```
return sizes;
       }
       void traverseNode(int i, int j, vector<vector<int>> matrix,
                         vector<vector<int>> *visited, vector<int> *sizes) {
         int currentRiverSize = 0;
         vector<vector<int>> nodesToExplore{{i, j}};
         while (nodesToExplore.size() != 0) {
           vector<int> currentNode = nodesToExplore.back();
           nodesToExplore.pop_back();
           i = currentNode[0];
           j = currentNode[1];
           if (visited->at(i)[j]) {
             continue;
           visited->at(i)[j] = true;
           if (matrix[i][j] == 0) {
             continue;
           }
           currentRiverSize++;
           vector<vector<int>> unvisitedNeighbors =
               getUnvisitedNeighbors(i, j, matrix, *visited);
           for (vector<int> neighbor : unvisitedNeighbors) {
             nodesToExplore.push_back(neighbor);
           }
         }
         if (currentRiverSize > 0) {
           sizes->push_back(currentRiverSize);
       }
       vector<vector<int>> getUnvisitedNeighbors(int i, int j,
                                                  vector<vector<int>> matrix,
                                                  vector<vector<int>> visited) {
         vector<vector<int>> unvisitedNeighbors{};
         if (i > 0 \&\& !visited[i - 1][j]) {
           unvisited Neighbors.push\_back(\{i - 1, j\});\\
         if (i < matrix.size() - 1 && !visited[i + 1][j]) {</pre>
           unvisitedNeighbors.push_back({i + 1, j});
         if (j > 0 \&\& !visited[i][j - 1]) {
https://www.algoexpert.io/questions/River Sizes
```

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Video Explanation

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