Our Solution(s) Run Code

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Your Solutions
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Solution 1
 1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   # O(wh) time | O(wh) space
   def riverSizes(matrix):
       sizes = []
 6
       visited = [[False for value in row] for row in matrix]
 7
        for i in range(len(matrix)):
 8
            for j in range(len(matrix[i])):
9
                if visited[i][j]:
10
                    continue
11
                traverseNode(i, j, matrix, visited, sizes)
12
        return sizes
13
14
15 def traverseNode(i, j, matrix, visited, sizes):
16
        currentRiverSize = 0
17
        nodesToExplore = [[i, j]]
18
       while len(nodesToExplore):
           currentNode = nodesToExplore.pop()
19
20
           i = currentNode[0]
           j = currentNode[1]
21
           if visited[i][j]:
23
               continue
           visited[i][j] = True
24
           if matrix[i][j] == 0:
25
               continue
26
27
           currentRiverSize += 1
28
            unvisitedNeighbors = getUnvisitedNeighbors(i, j, matrix,
29
            for neighbor in unvisitedNeighbors:
30
               nodesToExplore.append(neighbor)
```

```
Solution 1 Solution 2 Solution 3

1 def riverSizes(matrix):
2 # Write your code here.
3 pass
4
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if currentRiverSize > 0:

sizes.append(currentRiverSize)

Run Code

Run or submit code when you're ready.