□ Discuss (999+)

△ Solution

O Submissions

LeetCoding Challenge + GIVEAWAY!

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Success Details >

Description

Runtime: 16 ms. faster than 82.42% of C++ online submissions for Max Area of Island.

Memory Usage: 23.2 MB, less than 66.46% of C++ online submissions for Max Area of Island.

Next challenges:

Number of Islands

Island Perimeter

Largest Submatrix With Rearrangements

Show off your acceptance:







Time Submitted	Status	Runtime	Memory	Language
11/25/2021 01:41	Accepted	16 ms	23.2 MB	срр

```
i C++
                                                            {}
                    Autocomplete
                                                                 \bigcirc
                                                                      \odot
        class Solution {
   1 ▼
   2
        public:
   3
   4
            int n,m;
   5 ▼
            int sum(int i, int j, vector<vector<int>>& grid) {
                if (i < 0 || j < 0 || i >= n || j >= m || !grid[i][j])
   6
   7
                     return 0;
   8
                grid[i][j] = 0;
   9
                return 1 + sum(i-1, j, grid) + sum(i, j-1, grid) +
        sum(i+1, j, grid) + sum(i, j+1, grid);
  10
  11
            int maxAreaOfIsland(vector<vector<int>>& grid) {
  12 ▼
  13
                 int ans = 0;
  14
                 n = grid.size();
                m = grid[0].size();
  15
  16 ▼
                 for(int i = 0; i < n; i++) {
  17 ▼
                     for(int j = 0; j < m; j++){
  18 ▼
                         if (grid[i][j]){
  19
                             ans = max(ans, sum(i, j, grid));
  20
  21
                     }
  22
                }
  23
                 return ans;
  24
            }
  25
        };
Testcase
         Run Code Result Debugger
 Accepted
              Runtime: 5 ms
                                                                           ?
                [[0,0,1,0,0,0,0,1,0,0,0,0],[0,0,0,0,0,0,0,1,1,1,0,0,0],
 Your input
                [0,1,1,0,1,0,0,0,0,0,0,0],[0,1,0,0,1,1,0,0,1,0,1,0,0],
 Output
                6
                                                                         Diff
                6
  Expected
```