#15 days of dsa coding challenge

#Day 11

#Leetcode 200

Number of islands

Solution:

class Solution {

public:

void dfs(vector<vector<char>>& grid, int i, int j) {

if (i < 0 || j < 0 || i >= grid.size() || j >= grid[0].size() || grid[i][j] == '0') return;

grid[i][j] = '0';

dfs(grid, i + 1, j);

dfs(grid, i - 1, j);

dfs(grid, i, j + 1);

dfs(grid, i, j - 1);

}

int numIslands(vector<vector<char>>& grid) {

int count = 0;

for (int i = 0; i < grid.size(); i++) {

for (int j = 0; j < grid[0].size(); j++) {

if (grid[i][j] == '1') {

count++;

dfs(grid, i, j);

}

}

}

return count;

}

};