Description | Hints | Submissions | Discussions | Notes

Find the Number of Rooms

Difficulty	Time Limit	Memory	Score
[illegible]	1 sec	512000KB	100

80/80 XP | 30/30

Description

You are given a map of a building, and your task is to count the number of its rooms. The size of the map is n × m squares, and each square is either floor or wall. You can walk left, right, up, and down through the floor squares.

Input Format

The first input line has two integers n and m: the height and width of the map.

Then there are n lines of m characters describing the map. Each character is either '.' (floor) or '#' (wall).

Output Format

Print one integer: the number of rooms.

Constraints

$1 \le n, m \le 1000$

Sample Input 1

Copy

```
5 8
########
#..#...#
####.#.#
#..#...#
########
```

Sample Output 1

Copy

C++14 | 00:00:00 | 12 px

```
vector<vector<int>> vis;

int n, m;
int dx[] = {1, -1, 0, 0};
int dy[] = {0, 0, 1, -1};
bool check(int x, int y)
{
    if (x < n && y < m  && x >= 0 && y >= 0 && building[x][y] != '#')
    {
        return 1;
    }
    return false;
}
vector<pp> neighbour(pp p)
{
    vector<pp> ans;
    for (int i = 0; i < 4; i++)
    {
        int x = p.first + dx[i];
        int y = p.second + dy[i];
        if (check(x, y))
        {
            ans.push_back(make_pair(x, y));
        }
    }
    return ans;
}
void bfs(pp node)
{
    queue<pp> q;
    q.push(node);
    vis[node.first][node.second] = 1;

    while (!q.empty())
    {
        pp ele = q.front();
```

Sample Tests | Manual Tests

Console | Run on Sample