All Contests > Assignment 01 | Introduction to Algorithms | Batch 06 > Can Go?

Can Go?

Problem Submissions Leaderboard Discussions

Problem Statement

You are given an $N \times M$ sized 2D matrix that represents a map of a building. Each cell represents a wall, a floor or a room. You will be given two rooms A and B. You need to tell if you can go from room A to B by passing through the floors. You can walk **left**, **right**, **up**, and **down** through the floor cells. You can't pass through walls.

Input Format

- The first input line has two integers ${\it N}$ and ${\it M}$: the height and width of the map.
- Then there are N lines of M characters describing the map. Each character is .(floor), #(wall), A or B (rooms).

Constraints

1. $1 \le N, M \le 1000$

Output Format

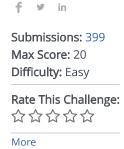
• Output **YES** if you can go from room A to B, **NO** otherwise.

Sample Input 0

5 8 ####### #.A#...# #.##.#B# #....#

Sample Output 0

YES



```
#include <bits/stdc++.h>
   2
   3
      using namespace std;
   4
   5
   6
   7
     int main()
   8 ▼{
          // Write your code here
   9
  10
          return 0;
  11
  12 }
  13
                                                                                                     Line: 1 Col: 1
<u>♣ Upload Code as File</u> Test against custom input
                                                                                       Run Code
                                                                                                    Submit Code
```