



03: 21: 29: 17
DAY HRS MIN SEC

June Circuits '20

LIVE

Jun 20, 2020, 09:30 PM IST - Jun 27, 2020, 09:30 PM IST

INSTRUCTIONS PROBLEMS SUBMISSIONS LEADERBOARD ANALYTICS JUDGE

← Problems / Inverted cells

Inverted cells

Max. score: 100

Given matrix n * m. We assume that the matrix rows are numbered from 1 to n from top to bottom, and the matrix columns are numbered from 1 to m from left to right. Then the cell of the field at the intersection of the x-th row and the y-th column has coordinates (x, y).

Every cell is empty or blocked. For every cell (x,y) determine if we change the state of the cell (x,y) (empty to blocked or blocked to empty), is it possible to reach cell (n,m) from (1,1) and going only down and right .

Input format

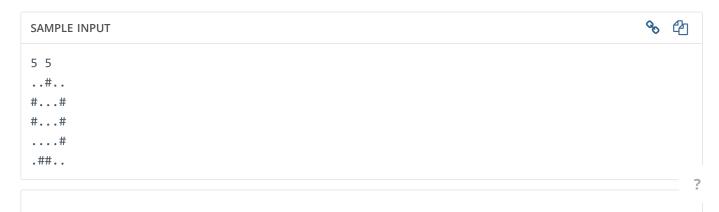
- First line contains two space-seperated numbers n, m number of rows and columns.
- Next n lines contains m symbols. If symbol on (x,y) is '#', cell is blocked, else if symbol is '.', cell is empty.

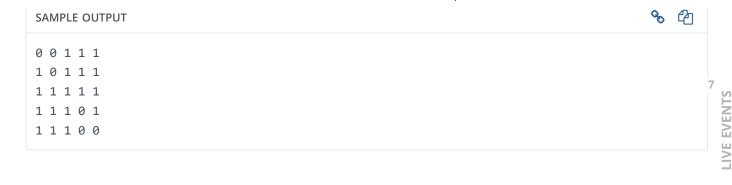
Output format

• Print n lines, where every line contains m numbers. Print o if it is impossible to reach (n, m), otherwise print o.

Constraints

• $1 \le n, m \le 10^3$





Explanation

If we blocked cell (1,1) or (5,5), it is obvious that the answer won't exist.

If we blocked cell (1,2) or (2,2), from the left-top corner, we cant achieve cell (5,5), since all paths are blocked off.

If we blocked cell (5,4) or (4,5), all possible passes from (5,5) are blocked off.

```
Time Limit:2.0 sec(s) for each input file.Memory Limit:256 MBSource Limit:1024 KBMarking Scheme:Score is assigned if any testcase passes.Allowed Languages:Bash, C, C++, C++14, C++17, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, Java 14, JavaScript(Rhino), JavaScript(Node.js), Julia, Kotlin, Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, Python 3, Python 3.8, Racket, Ruby, Rust, Scala, Swift-4.1, Swift, TypeScript, Visual Basic
```

CODE EDITOR

```
C (gcc 5.4.0)
                                                        Save
1
 2
     // Sample code to perform I/O:
 3
     #include <stdio.h>
 4
 5
     int main(){
 6
          int num;
7
          scanf("%d", &num);
                                                           // Reading input from STDIN
8
          printf("Input number is %d.\n", num);
                                                        // Writing output to STDOUT
9
     }
10
     // Warning: Printing unwanted or ill-formatted data to output will cause the test
11
     cases to fail
12
     */
13
14
     // Write your code here
                                                                                                  ?
15
```

7

1:1 vscode

☑ Provide custom input

COMPILE & TEST

SUBMIT

" Tip: You can submit any number of times you want. Your best submission is considered for computing total score.

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