

Advanced Programming Practices

Hackerrank Week-14

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Section: T2

Branch:CSE w/s OT

Ques 1: Count Luck

Problem:

The screenshot shows the Hackerrank interface for the 'Count Luck' problem. At the top, there's a navigation bar with 'HackerRank', 'Prepare', 'Certify', and 'Compete' tabs. Below this, the problem title 'Count Luck' is displayed with a star icon. A notification banner states: 'Your Count Luck submission got 50.00 points. You are now 9 points away from the 4th star for your problem solving badge.' The problem description follows, detailing a grid-based search problem. A sample input grid is shown:

```
.X.X.....X
.X.X.X.X.X
.XX.X.XM...
.....XXXX.
```

 The problem also includes a 'Problem' tab, 'Submissions', 'Leaderboard', 'Discussions', 'Editorial', and 'Topics' sections. On the right, there's a sidebar with 'Author: baasanbat', 'Difficulty: Medium', 'Max Score: 50', and 'Submitted By: 14521'. There are also links for 'NEED HELP?', 'View discussions', 'View editorial', 'View top submissions', 'RESOURCES', 'Depth First Search', 'RATE THIS CHALLENGE', 'MORE DETAILS', 'Download problem statement', 'Download sample test cases', 'Suggest Edits', and 'CHOOSE A TRANSLATION'.

Code:

```
def search(g, m, n, i, j, c = 0):
    if g[i][j] == '*':
        return c
    g[i][j] = 0
    moves = getmoves(g, m, n, i, j)
    if len(moves) > 1:
        c += 1
    for mv in moves:
        res = search(g, m, n, mv[0], mv[1], c)
        if res != None:
            return res
```

```

    return None

def getmoves(g, m, n, i, j):
    l, v = [], ('.', '*')
    if i > 0 and g[i - 1][j] in v:
        l.append((i - 1, j))
    if j > 0 and g[i][j - 1] in v:
        l.append((i, j - 1))
    if i < m - 1 and g[i + 1][j] in v:
        l.append((i + 1, j))
    if j < n - 1 and g[i][j + 1] in v:
        l.append((i, j + 1))
    return l

for _ in range(int(input())):
    m, n = map(int, input().split())
    g = [list(input()) for _ in range(m)]
    k = int(input())
    for i in range(m):
        for j in range(n):
            if g[i][j] == 'M':
                print('Impressed' if search(g,
m, n, i, j) == k else 'Oops!')
                break

```

Output:

hackerrank.com

Instagram - Chats(20) YouTubeHackerRank W14Count Luck | HackerRank


Line: 35 Col: 5

Upload Code as File

☐ Test against custom input

Run Code

Submit Code



You have earned 50.00 points!




You are now 9 points away from the 4th star for your problem solving badge.

97%

456/475

Congratulations

You solved this challenge. Would you like to challenge your friends?



Next Challenge

Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Test case 6

Test case 7

Compiler Message

Success

Input (stdin)

Download

```
1 3
2 2 3
3 +.H
4 .X.
5 1
6 4 1 1
7 .X.X.....X
8 .X+.X.XXX.X
9 .XX.X.XX...
```

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