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Points: 31.40 Rank: 27030

Bot saves princess - 2



by dheeraj

Problem

Submissions

Leaderboard

Discussions

In this version of "Bot saves princess", Princess Peach and bot's position are randomly set. Can you save the princess?

Task

Complete the function `nextMove` which takes in 4 parameters - an integer `N`, integers `r` and `c` indicating the row & column position of the bot and the character array `grid` - and outputs the **next** move the bot makes to rescue the princess.

Input Format

The first line of the input is `N` (<100), the size of the board (`N`×`N`). The second line of the input contains two space separated integers, which is the position of the bot.

Grid is indexed using [Matrix Convention](#)

The position of the princess is indicated by the character 'p' and the position of the bot is indicated by the character 'm' and each cell is denoted by '-' (ascii value: 45).

Output Format

Output only the **next** move you take to rescue the princess. Valid moves are LEFT, RIGHT, UP or DOWN

Sample Input

```
5
2 3
-----
-----
p--m-
-----
-----
```

Sample Output

```
LEFT
```

Resultant State

```
-----
-----
p-m--
-----
-----
```

Explanation

As you can see, bot is one step closer to the princess.

Scoring

Your score for every testcase would be $(N \times N - \text{number of moves made to rescue the princess}) / 10$ where N is the size of the grid (5x5 in the sample testcase). Maximum score is 17.5

[f](#) [t](#) [in](#)

Solved score: 17.50pts

Submissions: 27739



Max Score: 17




Difficulty: Easy

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☆☆☆☆☆

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C   

```
1 #include <stdio.h>
2 #include <string.h>
3 #include <math.h>
4
5 void nextMove(int n, int r, int c, char grid[101][101]){
6     //logic here
7 }
8
9 int main(void) {
10
11     int n, r, c;
12
13     scanf("%d", &n);
14     scanf("%d", &r);
15     scanf("%d", &c);
16
17     char grid[101][101];
18
19     for(int i=0; i<n; i++) {
20         scanf("%s[^\n]*c", grid[i]);
21     }
22
23     nextMove(n, r, c, grid);
24     return 0;
25 }
```

Line: 1 Col: 1

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