## **FREE PATHS**

## Problem Statement: Consider a block of m rows and n columns. At each step you can move one step to the right or one step to bottom or one step to bottom-right. i.e. if you are currently at (x,y) : x-row, y-column u can either move to (x,y+1) or (x+1,y) or (x+1,y+1)You've to find the number of possibilities to reach the point (A,B) from (0,0). Unluckily you cannot step into some places where bombs are placed denoted by "@". Input: The first line consists of 2 integers m and n denotes the number of rows and columns. Then the description of the m x n block is given. ('0'- if the path is free to move and '@'-if the path has bombs and u cannot move to that place) Then an integer t follows which denotes the number of test cases. Then for next t lines each line consists of 2 integers A and B. Output: For each test case print the number of possibilities of reaching (A,B) from (0,0) in separate lines. Input Constraints: 2<=m<=10 2<=n<=10 m>A>=0n>B>=0 **EXAMPLE:** SAMPLE INPUT: 36 000@@@ @@00@@ @@000@ 8 01 0.4 13 23 24

12 22 25

| 1                                    |                             |
|--------------------------------------|-----------------------------|
| 0                                    |                             |
| 3                                    |                             |
| 7                                    |                             |
| 10                                   |                             |
| 2                                    |                             |
| 2                                    |                             |
| 0                                    |                             |
| U                                    |                             |
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| EXPLANATION OF THE TESTCAS           | SE:                         |
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| From the figure clearly u can see th | nat there are 3 paths to (1 |
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 $https://docs.google.com/uc?id=0B0rk3iRD6D\_JYjAxMzAxNTEtYjU3YS00OWVhLWEyNzgtOWUzN2NmMmRmZDJh\&export=download\&authkey=CK-7vYol\&hl=en\_USALANDAUTHANDAU$