

# Online Judge F.A.Q

F.A.Q Hand In Hand Online Acmers Forum | Discuss Statistical Charts

#### **Online Exercise**

Problem Archive Realtime Judge Status Authors Ranklist

## Online Teaching

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### **Exercise Author**

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# **Red and Black**

Time Limit: 2000/1000 MS (Java/Others) Memory Limit: 65536/32768 K (Java/Others)
Total Submission(s): 29825 Accepted Submission(s): 18042

#### **Problem Description**

There is a rectangular room, covered with square tiles. Each tile is colored either red or black. A man is standing on a black tile. From a tile, he can move to one of four adjacent tiles. But he can't move on red tiles, he can move only on black tiles.

Write a program to count the number of black tiles which he can reach by repeating the moves described above.

#### Input

The input consists of multiple data sets. A data set starts with a line containing two positive integers W and H; W and H are the numbers of tiles in the x- and y-directions, respectively. W and H are not more than 20.

There are H more lines in the data set, each of which includes W characters. Each character represents the color of a tile as follows.

'.' - a black tile

'#' - a red tile

'@' - a man on a black tile(appears exactly once in a data set)

#### Output

For each data set, your program should output a line which contains the number of tiles he can reach from the initial tile (including itself).

#### Sample Input

```
6 9 ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ... # ..
```



#### **Sample Output**

4.5			
59			
6			
13			

#### Source

Asia 2004, Ehime (Japan), Japan Domestic

#### Recommend

Eddy

#### Statistic | Submit | Discuss | Note

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Hangzhou Dianzi University Online Judge 3.0
Copyright © 2005-2019 HDU ACM Team. All Rights Reserved.
Designer & Developer: Wang Rongtao LinLe GaoJie GanLu
Total 0.015601(s) query 2, Server time: 2019-07-17 19:09:41, Gzip disabled

Administration