2637.   Red and Black

Time Limit: 1.0 Seconds   Memory Limit: 65536K  
Total Runs: 1371   Accepted Runs: 795    Multiple test files

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)

The end of the input is indicated by a line consisting of two zeros.

**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

....#.

.....#

......

......

......

......

......

#@...#

.#..#.

11 9

.#.........

.#.#######.

.#.#.....#.

.#.#.###.#.

.#.#..@#.#.

.#.#####.#.

.#.......#.

.#########.

...........

11 6

..#..#..#..

..#..#..#..

..#..#..###

..#..#..#@.

..#..#..#..

..#..#..#..

7 7

..#.#..

..#.#..

###.###

...@...

###.###

..#.#..

..#.#..

0 0

**Output for the Sample Input**

45

59

6

13