

# Problem B. Counting Rooms

**Time Limit** 1000 ms  
**Mem Limit** 524288 kB

You are given a map of a building, and your task is to count the number of its rooms. The size of the map is  $n \times m$  squares, and each square is either floor or wall. You can walk left, right, up, and down through the floor squares.

## Input

The first input line has two integers  $n$  and  $m$ : the height and width of the map.

Then there are  $n$  lines of  $m$  characters describing the map. Each character is either `.` (floor) or `#` (wall).

## Output

Print one integer: the number of rooms.

## Constraints

- $1 \leq n, m \leq 1000$

## Example

Input	Output
5 8 ##### #..#...# ####.#.# #..#...# #####	3