

## Quiz Section for Program Design (II)

### Bonus #1

In this program, you will receive a map of a building, and your task is to count the numbers of the rooms in this building. The map is represented by a  $n \times m$  matrix, and each element of the matrix is either floor or wall (‘.’ is floor and ‘#’ is wall). The connected ‘.’ need to be seen as the same room.

#### Input:

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

Following the first line, there are  $n$  lines of  $m$  characters describing the map.

#### Output:

number of rooms

#### Constraints:

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

Input	Output
3 3 ### #.# ###	1
7 7 ##### #..##### ###..## ##..#.# ##.##.# ###.### #####	4