

You are tasked with counting the number of rooms on a building's map. The map is **n** by **m** squares in size, with each square representing either an empty space or a wall. The connected empty space squares can be merged into a single room.

### Input Format

- The first input line consists of two integers **n** and **m**, representing the length and width of the map.
- Following that, there are **n** lines of **m** characters describing the map. Each character is either "." (empty space) or "#" (wall).

### Constraints

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

### Output Format

- Print the number of rooms as an integer

### Sample Input 0

```
5 8
#####
#..#...#
####.#.#
#..#...#
#####
```

### Sample Output 0

```
3
```

### Explanation 0

To count the number of rooms in the given map, we need to identify enclosed areas that are surrounded by walls ("#") and can be accessed through empty spaces ("."). Each enclosed area counts as one room.

Let's analyze the map:



1. The first room is in the top left corner. It is surrounded by walls on all sides:

```
#####  
#11#...#  
####.#.#  
#.#.#...#  
#####
```

2. The second room is in the top right side. It is also surrounded by walls on all sides. And also has a wall in the middle:

```
#####  
#11#222#  
####2#2#  
#.#.#222#  
#####
```

3. The third room is at the bottom:

```
#####  
#11#222#  
####2#2#  
#33#222#  
#####
```

So, there are a total of 3 rooms in the map.