

Number of Islands

Timelimit: 1 sec

Problem description

There is a simplified map of a world with islands. Your task is to count how many islands there are. Land is symbolized by '#' and sea by '.'. Two pieces of land are directly connected if they are placed next to each other, either left and right or on top. An island is a maximal set of land pieces where you can get from each piece to each other using only land pieces. Note that diagonally placed land pieces are not directly connected.

Input

Numbers n and m ($1 \leq n, m \leq 100$), the height and width of the map. This is followed by n lines containing strings of length m describing the map with land and sea symbols.

Output

A single number: The number of islands on the map.

Sample input/output

Input	Output
10 20##.....##.. ..####.....##.. ..##.....####.. ##.....####.#..... ##.####.#..... ...##.#.##.#..... ...#####.##.##.....###.....##.....#####.....	5