

C. Components

You are given a square field of N by N elements. Some of these elements are used and some of them are empty space. Your task is to find number of connected components. Connected component is a set of used elements of following rule: from any used element of same connected component it is possible to get to any other used element of the same connected component by travelling by adjacent used elements by horizontal or vertical move.

Input

The first line of input contains N ($1 \leq N \leq 50$). Each of following N lines contains exactly N symbols. The symbol “#” indicates used cell. Other symbols indicate empty space.

Output

Print number of connected components.

Sample Input

```
4
####
##..
..##
##..
```

Sample Output

```
3
```