

# TROJKE

Mirko and Slavko are playing a new game, "Trojke" (Triplets). First they use a chalk to draw an N-by-N square grid on the road. Then they write letters into some of the squares. No letter is written more than once in the grid.

The game consists of trying to find three letters on a line as fast as possible. Three letters are considered to be on the same line if there is a line going through the centre of each of the three squares.

After a while it gets harder to find new triplets. Mirko and Slavko need a program that counts all the triplets, so that they know if the game is over or they need to search further.

## Input.

The first line contains an integer N ( $3 \leq N \leq 100$ ), the dimension of the grid.

Each of the N following lines contains N characters describing the grid – uppercase letters and the character '.', which marks an empty square.

## Output.

Output the number of triplets on a single line.

## Sample tests.

N	stdin	stdout
1	4 ...D ..C. .B.. A...	4
2	5 ..T.. A.... .FE.R ....X S....	3