# **How Many Plusses**

Mirko is a strange boy so he has written down a square matrix full of ones and zeroes. Now he is interested in how many plusses there are in his matrix.

A plus is a square such that its side has an odd length greater than 1 and all of its cells are zero, except for the middle row and the middle column: they must be full of ones. For example, in the matrix below there are two plusses, one inside the other:

00100
00100
11111
00100
00100

#### Input

In the first line there is an integer N  $\leq$  2000, dimension of the square matrix.

The next N lines are the rows of the matrix.

## Output

Print the number of plusses appearing in the matrix.

### Example

00010010

#### Output:

3