Chess board (3)   P19991_en

Consider a square chess board with n rows and n columns, where every square contains between 0 and 9 coins. Write a program such that, given a chess board, computes the total number of coins on its two diagonals.

Input

Input begins with the size n of the board. Follow n lines, each one with n characters between '0' and '9'.

Output

Print the total number of coins on the two diagonals of the board.

Sample input 1

```
4
2389
3402
3956
2018
```

Sample output 1

```
39
```

Sample input 2

```
3
975
123
450
```

Sample output 2

```
20
```

Problem information

Author : Salvador Roura
Translator : Salvador Roura
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