

---

## Chess coins (2)

X89253\_en

---

Consider a square chess board with  $n$  rows and  $n$  columns, where every square contains a number of coins. Write a program such that, given a chess board, computes the total number of coins on the diagonals. The first square in the board (top left) is always white.

### Input

The input is a natural number  $n > 0$ , followed by  $n$  rows, each with  $n$  non-negative integers, separated by whitespaces.

### Output

The output is the total number of coins in the board diagonals.

#### Sample input 1

```
8
0 1 0 1 0 1 0 0
1 0 1 0 1 0 0 0
0 1 0 1 0 0 0 1
1 0 1 0 0 0 1 0
0 1 0 0 0 1 0 1
1 0 0 0 1 0 1 0
0 0 0 1 0 1 0 1
0 0 1 0 1 0 1 0
```

#### Sample output 1

```
0
```

#### Sample input 2

```
6
2 0 0 0 0 1
0 2 0 0 1 0
0 0 2 1 0 0
0 0 1 2 0 0
0 1 0 0 2 0
1 0 0 0 0 2
```

#### Sample output 2

```
18
```

#### Sample input 3

```
5
2 38 91 10 0
21 4 12 9 14
3 6 77 22 21
20 4 18 6 3
5 61 7 2 19
```

#### Sample output 3

```
126
```

### Problem information

Author : Lluís Padró

Generation : 2024-06-25 12:32:19

© Jutge.org, 2006–2024.

<https://jutge.org>