

**Chess coins (1)****X78444\_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 difference between the total number of coins on white squares and the total number of coins on black squares. 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 white squares, and the total number of coins in black squares. Follow the format of the examples.

**Sample input 1**

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

**Sample output 1**

```
white: 0, black: 32
```

**Sample input 2**

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

**Sample output 2**

```
white: 36, black: 0
```

**Sample input 3**

```
4
2 38 91 10
21 4 12 9
3 6 77 22
20 4 18 6
```

**Sample output 3**

```
white: 196, black: 147
```

**Problem information**

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Generation: 2026-01-25T19:41:02.905Z

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