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## How many positives and how many negatives

X81458\_en

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Given a list of integer numbers  $a_1, \dots, a_n$ , we want to count how many of them are strictly positive, how many of them are strictly negative, and how many are in total. For example, in the list  $1, 2, -3, 0, 4, -5$  we have 3 positive values, 2 negative values, and 6 values in total.

**Note:** It is not allowed to use vectors or any other way to store massive data.

**Exam score:** 3.000000 **Automatic part:** 100.000000%

### Input

The input consists in an arbitrary non-empty list of integer numbers in one line.

### Output

The output describes the number of positive values, the number of negative values, and the total number of values in the list. Follow the format of the examples.

#### Sample input 1

1 2 -3 0 4 -5

#### Sample output 1

Pos: 3  
Neg: 2  
Tot: 6

#### Sample input 2

0 0 0 0 0 0 0 0

#### Sample output 2

Pos: 0  
Neg: 0  
Tot: 8

#### Sample input 3

-1 -2 -3 -4

#### Sample output 3

Pos: 0  
Neg: 4  
Tot: 4

#### Sample input 4

1 2 3 4

#### Sample output 4

Pos: 4  
Neg: 0  
Tot: 4

### Problem information

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