

## Problem B. plus-minus

OS Linux

Given an array of integers, calculate the ratios of its elements that are *positive*, *negative*, and *zero*. Print the decimal value of each fraction on a new line with 6 places after the decimal.

**Note:** This challenge introduces precision problems. The test cases are scaled to six decimal places, though answers with absolute error of up to  $10^{-4}$  are acceptable.

### Example

*arr* = [1, 1, 0, -1, -1]

There are  $n = 5$  elements: two positive, two negative and one zero. Their ratios are  $\frac{2}{5} = 0.400000$ ,  $\frac{2}{5} = 0.400000$  and  $\frac{1}{5} = 0.200000$ . Results are printed as:

```
1 | 0.400000
2 | 0.400000
3 | 0.200000
```

### Function Description

Complete the *plusMinus* function with the following parameter(s):

- *int arr[n]*: an array of integers

### Print

Print the ratios of positive, negative and zero values in the array. Each value should be printed on a separate line with **6** digits after the decimal. The function should not return a value.

### Input Format

The first line contains an integer,  $n$ , the size of the array.

The second line contains  $n$  space-separated integers that describe *arr[n]*.

### Constraints

$$0 < n \leq 100$$

$$-100 \leq arr[i] \leq 100$$

Input		Output
STDIN	Function	0.500000
-----	-----	0.333333
6	arr[] size n = 6	0.166667
-4 3 -9 0 4 1	arr = [-4, 3, -9, 0, 4, 1]	

Explanation

There are **3** positive numbers, **2** negative numbers, and **1** zero in the array.  
The proportions of occurrence are positive:  $\frac{3}{6} = 0.500000$ , negative:  $\frac{2}{6} = 0.333333$  and  
zeros:  $\frac{1}{6} = 0.166667$ .