# Plus Minus \*



Problem

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# RATE THIS CHALLENGE



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<sup>-4</sup> 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:

- 0.400000
- 0.400000
- 0.200000

### **Function Description**

Complete the plusMinus function in the editor below.

plusMinus has 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

 $0 < n \le 100$ 

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

## **Output Format**

Print the following 3 lines, each to 6 decimals:

- 1. proportion of positive values
- 2. proportion of negative values
- 3. proportion of zeros

## Sample Input

## Sample Output

0.500000

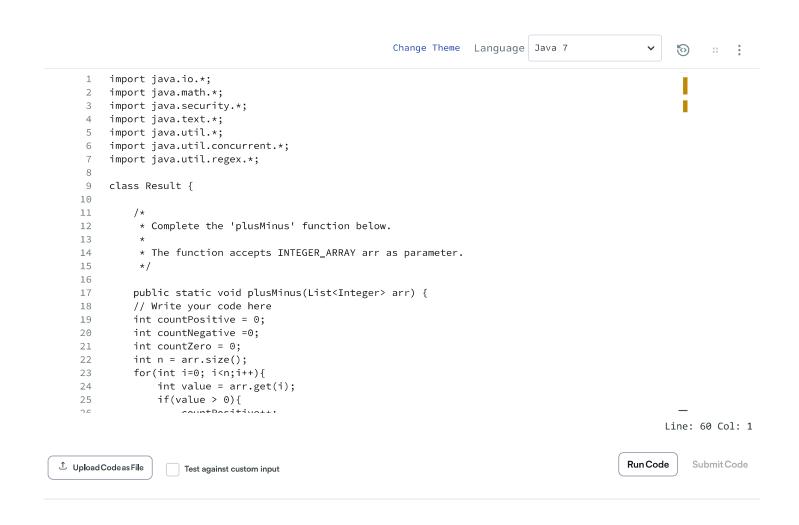
0.333333

0.166667

#### Explanation

There are  ${\bf 3}$  positive numbers,  ${\bf 2}$  negative numbers, and  ${\bf 1}$  zero in the array.

The proportions of occurrence are positive:  $\frac{3}{6} = 0.500000$ , negative:  $\frac{2}{6} = 0.333333$  and zeros:  $\frac{1}{6} = 0.166667$ .



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