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  $\frac{2}{5}=0.400000$ ,  $rac{2}{5}=0.400000$  and  $rac{1}{5}=0.200000$ . 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**

$$\begin{array}{l} 0 < n \leq 100 \\ -100 \leq arr[i] \leq 100 \end{array}$$

### **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

STDIN Function

# **Sample Output**

0.500000

0.333333

0.166667

# **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:

$$\frac{1}{6} = 0.166667$$
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