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  $rac{2}{5}=0.400000$ ,

$$rac{2}{5}=0.400000$$
 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  $\bf 6$  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**

$$0 < n \le 100$$

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

#### **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

| STDIN         | Function     |              |
|---------------|--------------|--------------|
|               |              |              |
| 6             | arr[] size n | = 6          |
| -4 3 -9 0 4 1 | arr = [-4,   | 3, -9, 0, 4, |

### Sample Output

```
0.500000
0.333333
0.166667
```

## Explanation

There are 3 positive numbers, 2 pogative numbers, and 1 zero in the array

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