



## Plus Minus ☆

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## Problem

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Given an array of integers, calculate the fractions of its elements that are positive, negative, and are zeros. Print the decimal value of each fraction on a new line.

**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.

For example, given the array  $arr = [1, 1, 0, -1, -1]$  there are 5 elements, two positive, two negative and one zero. Their ratios would be  $\frac{2}{5} = 0.400000$ ,  $\frac{2}{5} = 0.400000$  and  $\frac{1}{5} = 0.200000$ . It should be printed as

```
0.400000
0.400000
0.200000
```

## Function Description

Complete the plusMinus function in the editor below. It should print out the ratio of positive, negative and zero items in the array, each on a separate line rounded to six decimals.

plusMinus has the following parameter(s):

- arr: an array of integers

## Input Format

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

The second line contains  $n$  space-separated integers describing an array of numbers

$arr(arr[0], arr[1], arr[2], \dots, arr[n-1])$ .

## Constraints

$$0 < n \leq 100$$

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

## Output Format

You must print the following 3 lines:

1. A decimal representing of the fraction of positive numbers in the array compared to its size.
2. A decimal representing of the fraction of negative numbers in the array compared to its size.
3. A decimal representing of the fraction of zeros in the array compared to its size.

## Sample Input

```
6
-4 3 -9 0 4 1
```

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

Author

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Difficulty

Easy

Max Score

10

Submitted By

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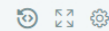
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```
1  import java.io.*;
2  import java.math.*;
3  import java.security.*;
4  import java.text.*;
5  import java.util.*;
6  import java.util.concurrent.*;
7  import java.util.regex.*;
8
9  public class Solution {
10
11     // Complete the plusMinus function below.
12     static void plusMinus(int[] arr) {
13
14     }
15
16     private static final Scanner scanner = new Scanner(System.in);
17
18
19     public static void main(String[] args) {
20         int n = scanner.nextInt();
21         scanner.skip("(\\r\\n|\\[\\n\\r\\u2028\\u2029\\u0085])?");
22
23         int[] arr = new int[n];
```

Line: 1 Col: 1

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