

# Plus Minus



Problem Submissions Leaderboard Discussions Editorial

Given an array of integers, calculate which fraction of its elements are *positive*, which fraction of its elements are *negative*, and which fraction of its elements are *zeroes*, respectively. 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.

## **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  $(a_0, a_1, a_2, \ldots, a_{n-1})$ .

# **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 zeroes in the array compared to its size.

#### Sample Input

### **Sample Output**

- 0.500000
- 0.333333
- 0.166667

#### **Explanation**

There are **3** positive numbers, **2** negative numbers, and **1** zero in the array.

The respective fractions of positive numbers, negative numbers and zeroes are  $\frac{3}{6} = 0.500000$ ,  $\frac{2}{6} = 0.333333$  and  $\frac{1}{6} = 0.166667$ , respectively.

Submissions:348975

Max Score:10

Difficulty: Easy

MWh

More

Current Buffer (saved locally, editable) & 4

C++ ×





```
1 v #include <bits/stdc++.h>
 2
 3
   using namespace std;
 5 ▼ void plusMinus(vector <int> arr) {
        // Complete this function
 7 }
 8
 9 vint main() {
10
        int n;
11
        cin >> n;
12
        vector<int> arr(n);
        for(int arr_i = 0; arr_i < n; arr_i++){</pre>
13 ▼
           cin >> arr[arr_i];
14 ▼
15
        plusMinus(arr);
16
        return 0;
17
18 }
10
                                                                                                                              Line: 1 Col: 1
                      Test against custom input
♣ Upload Code as File
                                                                                                                  Run Code
                                                                                                                               Submit Code
```

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