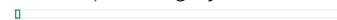




Plus Minus ☆

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Problem

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Editorial

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

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C++



```
1  #include <bits/stdc++.h>
2
3  using namespace std;
4
5  vector<string> split_string(string);
6
7  // Complete the plusMinus function below.
8  void plusMinus(vector<int> arr) {
9
10
11 }
12
13 int main()
14 {
15     int n;
16     cin >> n;
17     cin.ignore(numeric_limits<streamsize>::max(), '\n');
18
19     string arr_temp_temp;
20     getline(cin, arr_temp_temp);
21
22     vector<string> arr_temp = split_string(arr_temp_temp);
23
24     vector<int> arr(n);
25
26     for (int i = 0; i < n; i++) {
27         int arr_item = stoi(arr_temp[i]);
28
29         arr[i] = arr_item;
30     }
31
32     plusMinus(arr);
33
```

Line: 1 Col: 1

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