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Plus Minus



by vatsalchanana

Problem

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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 $(a_0, a_1, a_2, \dots, a_{n-1})$.

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

```
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 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: [258958](#)



Max Score: 10

Difficulty: Easy

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C++14  

```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 #include <iomanip>
7 using namespace std;
8
9
10 int main() {
11     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
12
13     vector<int> a;
14     int len;
15     float pos=0.0,neg=0.0,neutral=0.0 ;
16
17     cin >> len;
18     for(int i=0;i<len;i++)
19     {
20         int input;
21         cin >> input;
22         a.push_back(input);
23     }
24     for(int i=0;i<len;i++)
25     {
26         if(a[i]==0)
27             neutral++;
28         else if(a[i]<0)
29             neg++;
30         else
31             pos++;
32     }
33     //out << pos<<endl;
34     cout <<fixed<<setprecision(6)<<pos/len<<endl;
35     cout <<fixed<<setprecision(6)<<neg/len<<endl;
36     cout <<fixed<<setprecision(6)<<neutral/len<<endl;
37     return 0;
38 }
39
40
```

Line: 37 Col: 43

 [Upload Code as File](#) ☐ Test against custom input

Run Code

Submit Code

Congrats, you solved this challenge!

✓ Test Case #0
✓ Test Case #3
✓ Test Case #6
✓ Test Case #9

✓ Test Case #1
✓ Test Case #4
✓ Test Case #7
✓ Test Case #10

✓ Test Case #2
✓ Test Case #5
✓ Test Case #8

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