



Plus Minus ★

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Problem

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Editorial

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 $\frac{2}{5} = 0.400000$, $\frac{2}{5} = 0.400000$ and $\frac{1}{5} = 0.200000$. 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 **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

$$0 < n \leq 100$$

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

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

Change Theme Language C++14



```
11  *
12  * The function accepts INTEGER_ARRAY arr as parameter.
13  */
14
15  void plusMinus(vector<int> arr) {
16      double sp, sn, sz, pa = 1.0 / arr.size();
17      sp = sn = sz = 0;
18      for(int i = 0; i < arr.size(); i++){
19          if(arr[i] > 0) sp+= pa;
20          else if(arr[i]<0) sn+= pa;
21          else sz+= pa;
22      }
23      cout << setprecision(6) << fixed;
24      cout << sp <<endl;
25      cout << sn <<endl;
26      cout << sz <<endl;
27  }
28
29  int main()
30  {
31      string n_temp;
32      getline(cin, n_temp);
33
34      int n = stoi(ltrim(rtrim(n_temp)));
35
36      string arr_temp_temp;
37      getline(cin, arr_temp_temp);
38
39      vector<string> arr_temp = split(rtrim(arr_temp_temp));
40
41      vector<int> arr(n);
```

Line: 27 Col: 2

Upload Code as File

☐ Test against custom input

Run Code

Submit Code

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94%

826/850



Congratulations

You solved this challenge. Would you like to challenge your friends?

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✔ **Test case 0** 🔒

✔ Test case 1

✔ Test case 2 🔒

✔ Test case 3 🔒

✔ Test case 4 🔒

✔ Test case 5 🔒

✔ Test case 6 🔒

Compiler Message

Success

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