



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

```
6      int arr[200];
7      scanf("%d",&n);
8      for(i=0;i<n;i++)
9      {
10         scanf("%d",&arr[i]);
11     }
12     for(i=0;i<n;i++)
13     {
14         if(arr[i]<0)
15             j++;
16         if(arr[i]>0)
17             h++;
18         if(arr[i]==0)
19             k++;
20     }
21     s1=(float)h/n;
22     printf("%5f",s1);
23     s2=(float)j/n;
24     printf("\n%5f",s2);
25     s3=(float)k/n;
26     printf("\n%5f",s3);
27
28 }
29
```

Line: 29 Col: 1

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

Run Code

Submit Code

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30%

51/100





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Next Challenge

✔ 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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