Plus Minus ☆

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Problem Solving

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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 $arr(arr[0], arr[1], arr[2], \ldots, arr[n-1])$.

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 $\mathbf{3}$ positive numbers, $\mathbf{2}$ negative numbers, and $\mathbf{1}$ zero in the array.
The proportions of occurrence are positive: $\frac{\mathbf{3}}{\mathbf{6}} = \mathbf{0.500000}$, negative: $\frac{\mathbf{2}}{\mathbf{6}} = \mathbf{0.333333}$ and zeros: $\frac{\mathbf{1}}{\mathbf{6}} = \mathbf{0.166667}$.

Change Theme Python 3

```
1
2
3
4   n = int(input())
5   pos=neg=ze=0
6   arr = list(map(int, input().rstrip().split()))
7   for i in arr:
8       if i<0:
9           neg=neg+1
10      elif(i>0):
11          pos=pos+1
12      else:
13          ze=ze+1
14
15  print(pos/n)
16  print(neg/n)
17  print(ze/n)
18
19
20
```

Line: 17 Col: 9

Upload Code as File Test against custom input Run Code Submit Code

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59% 71/100

Problem Solving

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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

Hidden Test Case

Unlock this testcase for 5 hackos.

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