

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:

- proportion of positive values
- proportion of negative values
- 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 Python 3

```
1  #!/bin/python3
2
3  import math
4  import os
5  import random
6  import re
7  import sys
8
9  #
10 # Complete the 'plusMinus' function below.
11 #
12 # The function accepts INTEGER_ARRAY arr as parameter.
13 #
14
15 def plusMinus(arr):
16     # Write your code here
17     counts = {'positive':0, 'negative':0, 'zeroes': 0}
18     for ele in arr:
19         if ele > 0: counts['positive'] += 1
20         if ele < 0: counts['negative'] += 1
21         if ele == 0: counts['zeroes'] += 1
22
23     # positive ratio
24     print(counts['positive']/len(arr))
25
26     # negative ratio
27     print(counts['negative']/len(arr))
28
29     # zeroes
30     print(counts['zeroes']/len(arr))
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46
47
```

Line: 49 Col: 5

Upload Code as File

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Run CodeSubmit Code

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

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in

Test case 0

Test case 1

Test case 2

Compiler Message

Success

Hidden Test Case