



# Plus Minus ☆

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## Problem

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

## Constraints

$$0 < n \leq 100$$

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

## Output Format

You must print the following 3 lines:

- A decimal representing of the fraction of *positive* numbers in the array compared to its size.
- A decimal representing of the fraction of *negative* numbers in the array compared to its size.
- 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:  $\frac{1}{6} = 0.166667$ .

Python 3



```
1  #!/bin/python3
2
3  import math
4  import os
5  import random
6  import re
7  import sys
8
9  # Complete the plusMinus function below.
10 def plusMinus(arr):
11     print("%.6f" % (sum([a > 0 for a in arr]) / len(arr)))
12     print("%.6f" % (sum([a < 0 for a in arr]) / len(arr)))
13     print("%.6f" % (sum([a == 0 for a in arr]) / len(arr)))
14
15 if __name__ == '__main__':
16     n = int(input())
17
18     arr = list(map(int, input().rstrip().split()))
19
20     plusMinus(arr)
21
```

Line: 10 Col: 17

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Test against custom input

Run Code

Submit Code

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51%

66/100



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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

Test case 7

Test case 8

### Hidden Test Case

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