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HackerRank Prepare Interview Preparation Kits 1 Week Preparation Kit Day 1 Plus Minus

Problem

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

Upload Code as File | Run Code | Submit

Test against custom input

Congratulations!

You have passed the sample test cases. Click the submit button to run your code again test cases.

Sample Test case 0

Sample Test case 1

Input (stdin) Downlo

```
1 6
2 -4 3 -9 0 4 1
```

Your Output (stdout)

```
1 0.5
2 0.3333333333333333
3 0.16666666666666666
```

Expected Output Downloa

```
1 0.500000
```

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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

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Test against custom input

Congratulations!

You have passed the sample test cases. Click the submit button to test cases.

Sample Test case 0

Sample Test case 1

Input (stdin)

```
6
-4 3 -9 0 4 1
```

Your Output (stdout)

```
0.5
0.3333333333333333
0.16666666666666666
```

Expected Output

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Constraints

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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
```

Upload Code as File

Test against custom input

Congratulations!

You have passed the sample test cases. Click the test cases.

Sample Test case 0

Sample Test case 1

Input (stdi

6

-4 3

Your Output

0.5

0.333

0.166

Expected Outp

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HackerRank Prepare Interview Preparation Kits 1 Week Preparation Kit Day 1

Submissions | Leaderboard | Discussions | Editorial

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

Upload Code as File

Test against custom input

Congratulations!

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Sample Test case 0

Sample Test case 1

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e-separated integers
describe $arr[n]$.

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Change Theme Language Python 3

```
#!/bin/python3

import math
import os
import random
import re
import sys

#
# Complete the 'plusMinus' function below.
#
# The function accepts INTEGER_ARRAY arr as parameter.
#

def plusMinus(arr):
    # Write your code here
    count1=0
    count2=0
    count3=0
    for i in arr:
        if i>0:
```

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Input Format

The first line contains an integer, n, the size of the array.

The second line contains n space-separated integers that describe $arr[n]$.

Change Theme Language Python 3

```
14
15 def plusMinus(arr):
16     # Write your code here
17     count1=0
18     count2=0
19     count3=0
20     for i in arr:
21         if i>0:
22             count1=count1+1
23
24         elif i<0:
25             count2=count2+1
26
27         else:
28             count3=count3+1
29
30
31     res1=count1/n
32     res2=count2/n
33     res3=count3/n
34     print(res1)
```

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

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- 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 $arr[n]$.


```
25                count2=count2+1
26
27            else:
28                count3=count3+1
29
30
31        res1=count1/n
32        res2=count2/n
33        res3=count3/n
34        print(res1)
35        print(res2)
36        print(res3)
37
38        return (res1,res2,res3)
39    if __name__ == '__main__':
40        n = int(input().strip())
41
42        arr = list(map(int, input().rstrip().split()))
43
44        plusMinus(arr)
45
```