Plus Minus

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 with 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

$0 < n \leq 100$
$-100 \leq arr[i] \leq 100$

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 $\mathbf{3}$ 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: $\frac{\mathbf{1}}{\mathbf{6}} = \mathbf{0.166667}$.

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```python
#!/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
    pos, neg, zer = 0, 0, 0
    for i in arr:
        if i > 0:
            pos += 1
        elif i < 0:
            neg += 1
        else:
            zer += 1
    for i in [pos, neg, zer]:
        print(f'{i/len(arr):.6f}')

if __name__ == '__main__':
    n = int(input().strip())

    arr = list(map(int, input().rstrip().split()))

    plusMinus(arr)
```

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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

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