# Plus Minus ★



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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:

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

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
    n = len(arr)
    if (n>0) and (n<=100):
        neg=0
        zero=0
        pos=0
        for i in range(n):
            if (arr[i] < 0):
```

Line: 19 Col: 14

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Compiler Message

Success

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