

Plus Minus



Problem Submissions Leaderboard Discussions Editorial

Given an array of integers, calculate which fraction of its elements are *positive*, which fraction of its elements are *negative*, and which fraction of its elements are *zeroes*, respectively. 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.

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 $(a_0,a_1,a_2,\ldots,a_{n-1})$.

Output Format

You must print the following $oldsymbol{3}$ lines:

- 1. A decimal representing of the fraction of positive numbers in the array.
- 2. A decimal representing of the fraction of negative numbers in the array.
- 3. A decimal representing of the fraction of zeroes in the array.

Sample Input

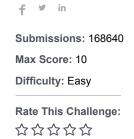
Sample Output

0.500000 0.333333 0.166667

Explanation

There are $\bf 3$ positive numbers, $\bf 2$ negative numbers, and $\bf 1$ zero in the array.

The respective fractions of positive numbers, negative numbers and zeroes are $\frac{3}{6} = 0.500000$, $\frac{2}{6} = 0.333333$ and $\frac{1}{6} = 0.166667$, respectively.



More

Current Buffer (saved locally, editable) $\ \mathscr{V} \ \mathfrak{O}$

Python 2 v

```
#!/bin/python
 1
 2
 3
    import sys
 4
 5
 6
    n = int(raw_input().strip())
 7
    arr = map(int,raw_input().strip().split(' '))
 8
    pos = 0
 9
    neg = 0
    zero = 0
10
11
12 ▼ for i in range(0,n):
        if arr[i]>0:
13
14
            pos+=1
15
        if arr[i]<0:</pre>
            neg+=1
16
17 ▼
        if arr[i]==0:
            zero+=1
18
19
20
    pos1=(float(pos)/float(n))
21
    neg1=(float(neg)/float(n))
    zero1=(float(zero)/float(n))
22
23
    print("%.6f" %pos1)
    print("%.6f" %neg1)
24
25
    print("%.6f" %zero1)
                                                                                                     Line: 19 Col: 9
                     ■ Test against custom input
                                                                                           Run Code
                                                                                                        Submit Code
1 Upload Code as File
                                   Congrats, you solved this challenge!

✓ Test Case #0

                                                  ✓ Test Case #1
                                                                                        Test Case #2
```

Congrats, you solved this challenge! Test Case #0 Test Case #1 Test Case #3 Test Case #4 Test Case #5 Test Case #6 Test Case #7 Test Case #8 Test Case #10 Next Challenge

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