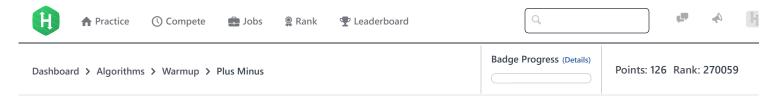
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Problem Submissions Leaderboard Discussions Editorial

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 3 lines:

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

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.

f ⊌ in

Submissions:321165

Max Score:10 Difficulty: Easy

More

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```
Current Buffer (saved locally, editable) & 🗘
                                                                                             Java 7
 1 ▼ import java.io.*;
 2 import java.util.*;
 3 import java.text.*;
 4 import java.math.*;
 5 import java.util.regex.*;
 7 ▼ public class Solution {
 8
         public static void main(String[] args) {
 9 ▼
             Scanner in = new Scanner(System.in);
10
             int n = in.nextInt();
11
             int arr[] = new int[n];
12 ▼
13 ▼
             for(int arr_i=0; arr_i < n; arr_i++){</pre>
                 arr[arr_i] = in.nextInt();
14 ▼
15
16
         }
17
     }
18
                                                                                                                      Line: 1 Col: 1
                                                                                                          Run Code
1 Upload Code as File
                       ☐ Test against custom input
                                                                                                                       Submit Code
```

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