# **Plus Minus**

Given an array of integers, calculate which fraction of the elements are positive, negative, and zeroes, respectively. Print the decimal value of each fraction.

#### **Input Format**

The first line, \$N\$, is the size of the array.

The second line contains N space-separated integers describing the array of numbers  $(A_1,A_2,A_3,cdots, A_N)$ .

### **Output Format**

Print each value on its own line with the fraction of positive numbers first, negative numbers second, and zeroes third.

## **Sample Input**

6 -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 fraction of the positive numbers, negative numbers and zeroes are  $\frac{3}{6}=0.500000$ ,  $\frac{2}{6}=0.333333$  and  $\frac{1}{6}=0.166667$ , respectively.

**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.