

Bash Tutorials - Compute the Average

Problem Statement

Given N integers, compute their average, correct to three decimal places.

Input Format

The first line contains an integer N.

This is followed by N integers, each on a new line.

Output Format

Display the average of the N integers, rounded off to three decimal places.

Input Constraints

$1 \leq N \leq 500$

$-10000 \leq x \leq 10000$ (x refers to elements of the list of integers for which the average is to be computed)

Sample Input

```
4
1
2
9
8
```

Sample Output

```
5.000
```

Explanation

The '4' in the first line indicates that there are four integers whose average is to be computed. The average $= (1 + 2 + 9 + 8)/4 = 20/4 = 5.000$ (correct to three decimal places) Please include the zeroes even if they are redundant (eg. 0.000 instead of 0).