

# Average

## Description

Given a list of numbers, compute the median and the mean.

- Median - When the list is sorted, the median is the middle number. If the length of the list is even, the median is halfway between the two middle numbers.
- Mean - The arithmetic mean is the sum divided by the length of the list.

## Input

The first line is the  $N$ , the length of the list of numbers ( $1 \leq N \leq 100$ ). The next  $N$  lines are integers between 1 and 1000 inclusive.

## Output

On the first line, print the median. On the second line, print the mean. Your answer must be accurate within three decimal places.

### Input

5  
1  
2  
3  
4  
5

### Output

3  
3

### Input

4  
3  
11  
4  
3

### Output

3.5  
5.25