A Dish Best Served Cold

To win your battle against statisticians, you need to implement some basic data analysis yourself. Specifically, you decide to write a test program that takes a data set (a list of integers) and calculates the following measures of spread:

- *Minimum* - the smallest value in the list. e.g. the minimum of the numbers {5, 6, 5, 3} is 3.
- *Maximum* - the largest value in the list. e.g. the maximum of the numbers {5, 6, 5, 3} is 6.
- *Mean* (or *average*) - defined as the sum of everything in the list divided by the number of items in the list. For example, the mean of the numbers {5, 6, 5, 3} is (5+6+5+3)/4 = 19/4 = 4.75. However for simplicity you are asked to round all answers down to the nearest whole number. So the mean of the numbers {5, 6, 5, 3}, rounded down, is 4.

Input

The first line of input will consist of a single integer n ($1 \leq n \leq 1,000$), the size of your data set. The following n lines will describe the data set. Each of these lines contains an integer between 0 and 1,000,000 inclusive.

Output

The output should consist of three integers separated by spaces: the minimum, maximum and mean of the data set.

Sample Input 1

```
6
70
72
74
50
73
75
```

Sample Output 1

```
50 75 69
```

Sample Input 2

```
6
100
200
200
200
200
1100
```

Sample Output 2

```
100 1100 333
```