

## A Dish Best Served Cold

You do not like statisticians, and statisticians do not like you. Ever since that life actuary kicked sand into your ice cream when you were four, you have waged a slowly escalating war against those number-crunching jerks. But all that is about to change.

After many sleepless nights you have conceived the ultimate revenge: beating them at their own game. Using your computer programming skills, you will write a freeware statistics package so thorough, so complete, that statisticians all around the world will be out of a job. It will be able to predict weather patterns, calculate life expectancies, and even play the perfect poker game.

First, though, you must implement word wrap. However, this task is rather finicky, not very mathematical in nature, and ultimately not very important. More urgently, you also need to implement some basic data analysis. 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 file 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