Pie a la Mode

The local patisserie sells the most delicious pastries. Your favourite kind is the *pie a la mode*, a fluffy fruit-filled pie served with a scoop of specialty ice cream. There are many different flavours of ice cream to be had, and you never know which one you are going to get.

Lately you have been using your laptop to keep track of which ice cream flavours you have recieved. Of course, typing in the name of each flavour is tedious and error-prone, so instead you have used numbers to represent different flavours. (For example, 0 = vanilla, 1 = chocolate, 2 = raspberry sorbet...)

Wondering which flavour you have gotten the most, you set to work writing a program.

Input

The first line of input will consist of a single integer P (1 <= P <= 100,000), the number of pies you have considered during your research. The following P lines will each consist of a single integer between 0 and 2,000,000,000 inclusive, representing the flavour of icecream that came with each pie.

Output

Your output file should consist of two space-separated integers, denoting the most common ice cream flavour, and the number of times it appears in the data. If there are multiple flavours tied for most common, you may choose any one of them.

Sample Input

```
5
20
300
1337
89
300
```

Sample Output

```
300 2
```

Explanation

In the sample data, the most common flavour to appear is flavour 300 (which is of course honeycomb crunch). It appears twice.

Scoring

The score for each input file will be 100% if a correct answer is written to the output file and 0% otherwise.