

Dangerous Bomb

Time Limit	1s
Memory Limit	64MB

Description

One day in ITB, Jehian was labelling N dangerous bombs with a sticker. Each dangerous bomb- i has sticker numbered B_i . Reiva so curios looking Jehian with his nerd stuff. When Reiva came, Jehian assign him to put those dangerous bombs into safety rooms. Only the bomb with same label can be put into same safety room, other can reacted and make ITB exploded! But, Jehian want the number of safety room is minimum as possible. Help Reiva to solve this!

Input Format

The first line contains an integer N the number of dangerous bombs.

The second line contains N space-separated integers B_i the label of dangerous bomb- i .

Output Format

In one line output two numbers the maximum number dangerous bombs in a single safety room and the number of room in total. Remember that Reiva should put all bombs to safety room for safety purpose.

Constraint

- $1 \leq N \leq 1.000$
- $1 \leq B_i \leq 1.000$

Sample Input 1

```
3
3 2 1
```

Sample Output 1

```
1 3
```

Sample Input 2

```
4
6 5 6 7
```

Sample Output 2

```
2 3
```