



HOME TOP CONTESTS GYM PROBLEMSET GROUPS RATING API CALENDAR HELP 10 YEARS! 🏗

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

# A. Towers

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

Little Vasya has received a young builder's kit. The kit consists of several wooden bars, the lengths of all of them are known. The bars can be put one on the top of the other if their lengths are the same.

Vasya wants to construct the minimal number of towers from the bars. Help Vasya to use the bars in the best way possible.

### Input

The first line contains an integer N ( $1 \le N \le 1000$ ) — the number of bars at Vasya's disposal. The second line contains N space-separated integers  $l_i$  — the lengths of the bars. All the lengths are natural numbers not exceeding 1000.

#### Output

In one line output two numbers — the height of the largest tower and their total number. Remember that Vasya should use all the bars.

#### **Examples**

input	Сору
3 1 2 3	
output	Сору
1 3	
input	Сору

input	Сору
4	
6 5 6 7	
output	Сору
2 3	

## → Attention

Package for this problem was not updated by the problem writer or Codeforces administration after we've upgraded the judging servers. To adjust the time limit constraint, solution execution time will be multiplied by 2. For example, if your solution works for 400 ms on judging servers, then value 800 ms will be displayed and used to determine the verdict.

## **Codeforces Beta Round #37**

#### **Finished**

## → Virtual participation

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Start virtual contest

→ Problem tags		
sortings	*1000	
		No tag edit access
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# → Contest materials

- Announcement
- Tutorial

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