



Princeton Computer Science Contest – Fall 2023

Problem 0: Mowing Poe Field (1 point) [CodeForces]

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Problem Statement

You just started working at Tiger’s Lawn Mowing Services (TLMS) as a grass measurer. TLMS is unique in that the rate it charges to mow a lawn is exactly proportional to the longest blade of grass, nothing more.

After reopening Poe Field, Princeton has contracted TLMS to mow the field and now it’s your time to shine. To make your work easier, Princeton undergraduates have enumerated and measured the height of all blades of grass and present them to you in a massive list. Write a function that returns the height of the largest blade of grass so TLMS can give an accurate rate.

Input

The first line contains N , with $1 \leq N \leq 10^5$, representing the amount of grass on Poe Field. The second line consists of N space-separated positive integers a_i with $1 \leq a_i \leq 10^6$, which are the heights of blades of grass.

Output

The output should consist of a single integer corresponding to the height of the tallest blade of grass.

Example 1

Input:

```
9
5 4 1 5 9 12 25 4 1
```

Output:

```
25
```

Explanation: The largest blade of grass has size 25.

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Example 2

Input:

```
14
1 3 6 5 6 8 5 1 92 12 41 42 24 15
```

Output:

```
92
```

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