

GFSS Christmas Challenge P2 - Height Inspection

Time limit: 1.0s **Memory limit:** 64M

It's Christmas season and Santa is training a new class of elves to carry out the logistics and operations of delivering presents. The class of 2021 has N students.

Before Santa starts instructing, he would like to conduct a survey on the heights of all N students. Naturally, there are different tasks at the North Pole which tall and short people are better suited for.

Since N is large, he requires your assistance to write a program to determine the height of the **shortest** and **tallest** student. Can you help Santa?

Input Specification

The first line contains N ($1 \leq N \leq 10^5$).

The next N lines each contain an integer h_i ($1 \leq h_i \leq 10^3$), representing the height of the i -th student.

Output Specification

Output two values on separate lines, the height of the **shortest** and **tallest** student, respectively.

Sample Input

```
5
3
6
7
1
2
```

Sample Output

```
1
7
```

Explanation

The heights of the 5 students are [3, 6, 7, 1, 2].

The first line of output represents the height of the shortest student - 1.

The second line of output represents the height of the tallest student - 7.