Sorting

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

Given a list of n numbers, sort them and output them one per line from smallest to largest.

Input Specification

The first line of the input contains a positive integer n no greater than 100, the number of numbers to follow.

Each line after will have a single positive integer less than $32\,000$.

Output Specification

Output the numbers in sorted order from smallest to largest, one per line.

Sample Input

```
4
4
3
2
1
```

Sample Output

```
1
2
3
4
```