

# Sorting

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

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

## Input Specification

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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

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

## Sample Input

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```
4
4
3
2
1
```

## Sample Output

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```
1
2
3
4
```