Given the list of numbers, you are to sort them in non decreasing order.

**Input**

*t* – the number of numbers in list, then *t* lines follow [*t* <= 10^6].   
  
Each line contains one integer: *N* [0 <= *N* <= 10^6]

**Output**

Output given numbers in non decreasing order.

**Example**

**Input:**

5

5

3

6

7

1

**Output:**

1

3

5

6

7