

Problem E. Turbo Sort

Time limit 3047 ms

Code length Limit 50000 B

OS Linux

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 [$t \leq 10^6$].

Each line contains one integer: N [$0 \leq N \leq 10^6$]

Output

Output given numbers in non decreasing order.

Sample 1

Input	Output
5 5 3 6 7 1	1 3 5 6 7