

H. Array Sorting

time limit per test: 2 seconds
memory limit per test: 256 megabytes
input: standard input
output: standard output

Sorting arrays is traditionally associated with high-level languages. How hard can it be in FALSE? Sort the given array in non-descending order.

Input

The input consists of a single line of space-separated integers. The first number is n ($1 \leq n \leq 10$) — the size of the array. The following n numbers are the elements of the array ($1 \leq a_i \leq 100$).

Output

Output space-separated elements of the sorted array.

Examples

input
3 3 1 2
output
1 2 3

input
7 12 2 3 44 5 60 2
output
2 2 3 5 12 44 60