Sorting

Input file:	`standard input`
Output file:	`standard output`
Time limit:	1 second
Memory limit:	64 megabytes

Given a number N and an array A of N numbers. Print the numbers after **sorting** them.

Note:

- Don't use built-in-functions.

- try to solve it with bubble sort algorithm or Selection Sort.

- for more information watch : `https://www.youtube.com/watch?v=EnodMqJuQEo`.

Input

First line contains a number N ($0 < N < 10^3$) number of elements.

Second line contains N numbers ($-100 \leq A_i \leq 100$).

Output

Print the numbers after **sorting** them.

Examples

standard input	standard output
3 3 1 2	1 2 3
4 5 2 7 3	2 3 5 7