## Sorting

You are given an array of numbers. Sort them. No tricks here. Just sort and print them.

## Input

The first line of input contains $\mathrm{n}(1<=\mathrm{n}<=100)$, the total number of numbers in the array.
The second line contains n numbers, separated by a single space. Each number in the array is between $-10^{\wedge} 6$ to $+10^{\wedge} 6$ (inclusive)(32-bit integer type will work fine).

## Output

Print a line containing the sorted array of the given numbers. Each number should be separated by a single space.

## Example

Input
5
98765

## Output

56789

