## 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  $n(1 \le n \le 100)$ , 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  $-10^{6}$  to  $+10^{6}$  (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** 5 6 7 8 9