

Sort an array of integers in non-decreasing order.

The first line of the input contains an integer  $N$  ( $1 \leq N \leq 100$ ), the second line contains  $N$  integers, modulo not exceeding  $2 \cdot 10^9$ .

Output the given numbers in non-decreasing order.

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**Sample input:**

10

1 8 2 1 4 7 3 2 3 6

**Sample output:**

1 1 2 2 3 3 4 6 7 8