

## Sort array

An array  $A$  of  $N$  integer elements is given. It is required to sort array  $A$  in non-decreasing order and print it.

### Input

From the standard input device the number  $N$  ( $1 \leq N \leq 1000$ ) is entered in the first line - the quantity of elements of array  $A$ . The second line contain  $N$  numbers elements of the array  $A$  ( $-1000 \leq A_i \leq 1000$ ).

### Output

Print non-decreasing array  $A$ , *printing a space after each element*.

### Sample Input

```
10
6 4 67 3 345 76 35 65 6 346
```

### Sample Output

```
3 4 6 6 35 65 67 76 345 346
```