

Sort the array of integers in non-increasing order.

The first line of the input contains an integer N ($1 \leq N \leq 1000$), the second line contains N integers, modulo not exceeding $2 \cdot 10^9$.

Print the given numbers in non-increasing order.

Sample input:

```
5
9 2 7 1 2
```

Sample output:

```
9 7 2 2 1
```