The world is unfair

You will be given N integers. You have to sort them in assending order.

Input Format

First line contains total number of inputs, N. Then there will be N integers separated by space.

Constraints

1<= N <= 100 1<= value of integers <= 1000

Output Format

print the integers in assending order.

Sample Input 0

```
5
5 2 4 2 3
```

Sample Output 0

```
2 2 3 4 5
```

Sample Input 1

```
10
4 5 8 1 2 7 9 0 3 6
```

Sample Output 1

```
0 1 2 3 4 5 6 7 8 9
```