

Bubble Sort

FatalEagle is playing with N blocks with each with a distinct number T ($0 \leq T \leq 256$) on them. He is trying to learn how to sort the blocks in ascending order with bubble sort. He would like you to show him the steps to sort his blocks. Click [here](#) for a description of bubble sort.

Input Specification

The first line will have the integer N ($0 \leq N \leq 20$).

The next line have N integers, each separated with a space.

Output Specification

Print the initial block sequence, then after each time bubble sort swaps two elements, print the current block sequence.

Sample Input 1

```
2
2 1
```

Sample Output 2

```
2 1
1 2
```

Sample Input 2

```
6
9 1 2 6 4 7
```

Sample Output 2

9 1 2 6 4 7

1 9 2 6 4 7

1 2 9 6 4 7

1 2 6 9 4 7

1 2 6 4 9 7

1 2 6 4 7 9

1 2 4 6 7 9