

# Q1 - Quick Sort Algorithm

This page is used for checking the format and correctness.

## Input Format

For every two lines.

The first line contains one integer  $N$  ( $0 \sim 1000$ ).

The second line contains  $N$  unsorted integer ( $-10000 \sim 10000$ ).

End if the  $N$  equals to 0.

## Constraints

Please implement with C++.

`std::sort` is not allowed.

## Output Format

For each line, print out the sorted  $N$  numbers.

## Sample Input 0

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

## Sample Output 0

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