

## 11462 Age Sort

You are given the ages (in years) of all people of a country with at least 1 year of age. You know that no individual in that country lives for 100 or more years. Now, you are given a very simple task of sorting all the ages in ascending order.

### Input

There are multiple test cases in the input file. Each case starts with an integer  $n$  ( $0 < n \leq 2000000$ ), the total number of people. In the next line, there are  $n$  integers indicating the ages. Input is terminated with a case where  $n = 0$ . This case should not be processed.

### Output

For each case, print a line with  $n$  space separated integers. These integers are the ages of that country sorted in ascending order.

**Warning:** Input Data is pretty big ( $\sim 25$  MB) so use faster IO.

### Sample Input

```
5
3 4 2 1 5
5
2 3 2 3 1
0
```

### Sample Output

```
1 2 3 4 5
1 2 2 3 3
```