## JudgeIt!

The Virtual Learning Environment for Computer Programming

## Sorting

P82924_en

Given a sequence of positive integer numbers, your program must print first the even numbers in increasing order, and then the odd numbers in decreasing order.

## Input

The input consists of zero or more cases. Each case consists of a line with at most 10000 integer numbers strictly positive. Each line ends with a 0 that indicates the end.

## Output

For each case, your program must print a line with the even numbers in non decreasing order, and in the following line the odd numbers in non increasing order.

```
Sample input
15 20 0
1 2 2 3 4 4 5 6 6 7 8 0
5
```

```
Sample output
20
15
2 4 6 8
7 5
7llllllll
```


## Problem information

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