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# Separated sort

P25992\_en

Given a sequence of natural numbers, first, print the even numbers in increasing order, and then the odd numbers in decreasing order.

### Input

Input consists of zero or more cases. Each case consists of a line with at most 1000 natural numbers strictly positive. Each line ends with a 0 that indicates the end.

#### Output

For each case, print in a line the even numbers in increasing order, and in the following line the odd numbers in decreasing order.

## Sample input

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

#### Sample output

```
20
15
2 4 6 8
7 5 3 1
```

#### **Problem information**

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