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The Virtual Learning Environment for Computer Programming

## 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
5
```


## Sample output

```
2 0
1 5
24 6 8
7 5 3 1
```



## Problem information

Author : Salvador Roura
Translator : Carlos Molina
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