

Odds and Evens

Input File: oae.txt

Your job in Odds and Evens is to sort integers into two sorted lists, one of odd numbers, the other even.

Input:

The first line contains an integer N. The following N lines contain a string of integers separated by a space.

Output:

For each line of input, output the integers sorted numerically, except with all the odd numbers before even numbers.

Example Input:

```
4
1 2 3 4 5 6 7 8 9 10
9 817 283 74
12 938 1 2 333 72
10 9 8 7 6 5 4 3 2 1
```

Example Output:

```
1 3 5 7 9 2 4 6 8 10
9 283 817 74
1 333 2 12 72 938
1 3 5 7 9 2 4 6 8 10
```