Trivial Training Problem

The task

You are given a list L of integer values. Print, in ascending order, a list of all duplicate values in L. Each value in the output should appear only once.

Input

The input contains a single line with a list of integers separated by spaces.
There are at least 2 and at most 1000 values in the input. All values are positive and do not exceed 1000.

Output

The output consists of one text line containing a list of duplicates in the input list.
The output values are separated by spaces and they are printed in ascending order.
The output list is guaranteed to be unempty.

Example 1

Input

```
1 2 2 3 3 3
```

Output

```
2 3
```

Example 2

Input

```
60 50 40 30 20 10 0 0 10 20 30 40
```

Output

```
0 10 20 30 40
```

Example 3

Input

```
4 4 4 4 4 4 4 2 4 4 4
```

Output

```
4
```

Public data

The public data set is intended for easier debugging and approximate program correctness checking. The public data set is stored also in the upload system and each time a student submits a solution it is run on the

public dataset and the program output to stdout and stderr is available to him/her.
Link to public data set