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**Set of sets****P54824\_en**

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Write a program that, given a sequence of sets of integer numbers, prints the sets in order and with no repetitions.

**Input**

Input is a sequence of non empty sets of integer numbers, a set per line. The elements inside each set are different, and can be given in any order.

**Output**

Print the sets of the input, one per line, in order and with no repetitions. Print the sets sorted non-decreasingly by the number of elements. If there is a tie, print before the lexicographically smallest set. The elements of each set must be written in increasing order.

**Hint**

The standard comparison between two sets follows the lexicographical order.

**Sample input 1**

```
1 2 3 4 5 6
6 4 2
9 5 4 0 2 1
0 1 2 5 6 7
9
8 7
4 2 6
7 8
```

**Sample output 1**

```
9
7 8
2 4 6
0 1 2 4 5 9
0 1 2 5 6 7
1 2 3 4 5 6
```

**Problem information**

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