# **Dominant Strings**

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Given two strings  $s_1$  and  $s_2$ , we say that  $s_1$  dominates  $s_2$  if the (multi)set of characters in  $s_1$  is a proper superset of the (multi)set of characters in  $s_2$ . For instance, "acmicpc" dominates "camp", but it does not dominate "chimp" or "macpac". For a set S of strings, we call the strings in S which are not dominated by any string in S the dominant strings of S (even if they do not dominate any strings in S).

Now, your task is simply to find all the dominant strings of a set of strings.

## Input

The input contains a single set of strings, with one string per line. Each string consists of at least one and at most ten lower-case alphabetic characters. There will be at most 15000 strings, and no two strings will be identical. Input is terminated by end-of-file.

#### **Output**

Output consists of all dominant strings in the input set, in alphabetical order, one word per line.

## **Example**

### Input:

acmicpc cccp macpac chimp camp

#### **Output:**

acmicpc chimp macpac