Problem F
Dominant Strings

Input: standard input
Output: standard output
Time Limit: 2 seconds

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.

Sample Input	Output for Sample Input
acmicpc cccp macpac chimp camp	acmicpc chimp macpac

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