## Dominant Strings

## Dominant Strings

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 $S$ thedominant 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

