

#### Introduction

An anagram is a word formed by rearranging the letters of a different word, using all the original letters exactly once. For instance, the word *listen* can be rearranged into *silent*.

Checking for anagrams might be a tedious task, especially in the case of long words. Because of that, we ask you to help us in coding a simple program that, given an original word and a list of words, finds which of them are anagrams of the original text in the list.

#### Input

The input consists of two lines:

- A first one with the original word.
- A second one with the list of words to check for anagrams.

All inputs are always given in lower case.

## Output

The output will be all the anagrams in the list, sorted by order of appearance.

# Example 1

Input abcd abdc cdab bace dacb abce Output

abdc cdab dacb

### Example 2

Input codewars anagram warscode varscode warcodes rawcodes readcaos sweardoc Output warscode warcodes rawcodes sweardoc

