

## Pseudo-anagrams

X28681\_en

An *anagram* of a word or phrase is another word or phrase that contains exactly the same letters. For instance "evil" is an anagram of "vile", "cheater" is an anagram of "teacher", and "New York times" is an anagram of "Monkeys write".

A *pseudo-anagram* of a word or phrase is another word or phrase that contains the same letters regardless of the number of times each letter appears. For instance, "teacher" is a pseudo-anagram of "reattach", "go" is a pseudo-anagram of "goo", and "drapes" is a pseudo-anagram of "desappeared". Obviously, any anagram is also a pseudo-anagram.

Write a program that reads a text and lists all the pairs of pseudo-anagrams it contains. Each pair must list the alphabetically smaller word first. The list of pairs must be sorted alphabetically by the first word of the pair.

### Input

The input is a text consisting only of words in lowercase and whitespaces.

### Output

The output is the list of pseudo-anagram pairs, alphabetically sorted. The pairs must be written with the alphabetically smaller word first.

#### Sample input 1

an anagram of a word or phrase is another word or phrase that contains exactly the same letters for instance evil is an anagram of vile and cheater is an anagram of teacher

#### Sample output 1

cheater teacher  
evil vile

#### Sample input 2

some mooses point to a sphera of phrases in grooming the hethett morning despite those semoses teppidest shoes and hoses

#### Sample output 2

despite teppidest  
grooming morning  
hethett the  
hoses shoes  
mooses semoses  
mooses some  
phrases sphera  
semoses some

### Problem information

Author: Lluís Padró

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