# 10391 Compound Words

You are to find all the two-word compound words in a dictionary. A two-word compound word is a word in the dictionary that is the concatenation of exactly two other words in the dictionary.

## Input

Standard input consists of a number of lowercase words, one per line, in alphabetical order. There will be no more than 120,000 words.

#### Output

Your output should contain all the compound words, one per line, in alphabetical order.

# **Sample Input**

а

alien

born

less

lien

never

nevertheless

new

newborn

the

zebra

## **Sample Output**

alien

newborn