# **Problem E: 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**

a alien born less lien never nevertheless new newborn the zebra

# **Sample Output**

alien newborn