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The Virtual Learning Environment for Computer Programming

Gossip P47386\_en

Write a program to maintain basic information for the gossip magazines: who is a couple of who. There are two kinds of orders: "info" and "affair" x y. The first asks for a list of all the information at that moment. The second indicates that x and y are a couple now. If some person z was a couple of x or a couple of y, then z becomes single.

#### Input

Input consists of several orders. For every "affair" x y order, both x and y are words made up of only lowercase letters, such that x and y are different, and such that x and y do not have an affair at that moment.

#### Output

Print as many lists as "info" orders, finishing each with a line with 10 dashes. Print the couples in alphabetical order, and also the couples among them. Print the alone people in alphabetical order as well.

#### Observation

In the private test cases, most orders are of the "affair" kind.

### Sample input 1

affair gerard shakira info affair sara iker info affair gerard sara info affair iker cristiano info

### Sample input 2

info
affair ba a
affair b ab
affair aab ac
info
affair ac b
affair b ab
info

### **Problem information**

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### Sample output 1

COUPLES: gerard shakira ALONE: \_\_\_\_\_ COUPLES: gerard shakira iker sara ALONE: COUPLES: gerard sara ALONE: iker shakira \_\_\_\_\_ COUPLES: cristiano iker gerard sara ALONE: shakira

## Sample output 2