## **Problem 3 - Phone Shop**



Kevin has a phone shop. He has to order new models, but his storage is so large that he doesn't know which phone models he has.

Write a program that will help Kevin not to buy unnecessary phones. You will receive a list of phones separated by ", " (comma and space). After that, until you receive "End", you will receive different commands, each on a new line. The commands are:

- "Add {phone}":
  - Add the given phone to the storage.
  - o If the phone already **exists**, you should **skip** this line.
- "Remove {phone}":
  - Remove the phone from the storage if it exists.
  - Otherwise, **ignore** the command.
- "Bonus phone {oldPhone}:{newPhone}":
  - o If the old phone exists, add the new phone after the old one.
  - Otherwise, **ignore** the command.
- "Last {phone}":
  - If the given phone exists, you should change its position and put it last in your storage.
  - Otherwise, **ignore** the command.

#### Input

- On the first line list of phones separated by ", " (comma and space)
- On the **next lines** commands until you receive "End"

#### **Output**

After receiving the "End" command, print the phones in your storage, separated by ", " (comma and space).

### **Examples**

Input	Output
SamsungA50, MotorolaG5, IphoneSE	SamsungA50, MotorolaG5, Iphone10
Add - Iphone10	
Remove - IphoneSE	
End	















HuaweiP20, XiaomiNote, Iphone5
MotorolaG5, HuaweiP10, SamsungA50

# **JS Examples**

The input will be an array of strings.

Input	Output
(["SamsungA50, MotorolaG5, IphoneSE",	SamsungA50, MotorolaG5, Iphone10
"Add - Iphone10",	
"Remove - IphoneSE",	
"End"])	
(["HuaweiP20, XiaomiNote",	HuaweiP20, XiaomiNote, Iphone5
"Remove - Samsung",	
"Bonus phone - XiaomiNote:Iphone5",	
"End"])	
(["SamsungA50, MotorolaG5, HuaweiP10",	MotorolaG5, HuaweiP10, SamsungA50
"Last - SamsungA50",	
"Add - MotorolaG5",	
"End"])	













