# 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.
  + 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}":
  + 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  Add - Iphone10  Remove - IphoneSE  End | SamsungA50, MotorolaG5, Iphone10 |
| HuaweiP20, XiaomiNote  Remove - Samsung  Bonus phone - XiaomiNote:Iphone5  End | HuaweiP20, XiaomiNote, Iphone5 |
| SamsungA50, MotorolaG5, HuaweiP10  Last - SamsungA50  Add - MotorolaG5  End | MotorolaG5, HuaweiP10, SamsungA50 |

### JS Examples

The input will be an array of strings.

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