Problem 3. Inventory

As a young traveler, you gather items and craft new items.

Input / Constraints

You will receive a journal with some Collecting items, separated with ',' (comma and space). After that, until receiving "Craft!" you will be receiving different commands.

Commands (split by " - "):

- "Collect {item}" Receiving this command, you should add the given item in your inventory. If the item already exists, you should skip this line.
- "Drop {item}" You should remove the item from your inventory, if it exists.
- "Combine Items {oldItem}:{newItem}" You should check if the old item exists, if so, add the new item after the old one. Otherwise, ignore the command.
- "Renew {item}" If the given item exists, you should change its position and put it last in your inventory.

Output

After receiving "Craft!" print the items in your inventory, separated by ", " (comma and space).

Examples

Output
Iron, Sword, Gold
Output
Sword, Bow, Iron













