## **Problem 3. Wizard Poker**

The world is threatened by an enemy never seen before. Your hero's weapon seems to be useless against the enemy. But your hero has a super strong arsenal full of powerful magic cards and will challenge the enemy to a card duel to the death and he needs your help to create the perfect deck.

Write a program that adds, inserts, removes and swaps cards into a new deck.

On the first line, you will receive all cards as a string separated by ":". On all of the following lines you will receive commands, until you finally receive the "Ready" command, in the following format:

- Add {card name}
  - Adds the card to the end of the deck.
  - If the card doesn't exist in print "Card not found."
- Insert {card name} {index}
  - Insert the card at the given index of the deck.
  - If the card doesn't exist or the index is invalid print "Error!"
- Remove {card name}
  - Remove the card from the **deck**.
  - If the card doesn't exist in print "Card not found."
- Swap {card name 1} {card name 2}
  - Swap the positions of the cards.
  - Input will always be valid
- Shuffle deck
  - Reverse the **deck**

When you receive the "Ready" command print the cards in the deck separated by a space.

## Input

- On the 1<sup>st</sup> line, you will receive the arsenal of all cards available separated by ":".
- On the next lines, until you receive the "Ready" command you will receive commands to arrange your deck.

## **Output**

Print the cards in your deck on a single line, separated by a single space.















## **Examples**

Input	Output
[`Innervate:Moonfire:Pounce:Claw:Wrath:Bite`,	Wrath Pounce Claw Moonfire
`Add Moonfire`,	
`Add Pounce`,	
Add Bite,	
`Add Wrath`,	
Insert Claw 0,	
`Swap Claw Moonfire`,	
`Remove Bite`,	
`Shuffle deck`,	
`Ready`]	
Comments	
First command is Add Moofire and now our deck has one card in it.	
1. Moonfire Pounce	
2. Moonfire Pounce Bite	
3. Moonfire Pounce Bite Wrath	
4. Claw Moonfire Pounce Bite Wrath	
5. Moonfire Claw Pounce Bite Wrath	
6. Moonfire Claw Pounce Wrath	
7. Wrath Pounce Claw Moonfire	
[`Wrath:Pounce:Lifeweaver:Exodia:Aso:Pop`,	Card not found.
`Add Pop`,	Card not found.
`Add Exodia`,	Error!
`Add Aso`,	Aso Exodia Pop
`Remove Wrath`,	'
`Add SineokBqlDrakon`,	
, , , , , , , , , , , , , , , , , , ,	



`Shuffle deck`, `Insert Pesho 0`,

`Ready`]









