# Deck of Cards

You will **receive a list** of Toms already owned premium vehicles **on a single line separated by ", ".** On the **next line** you will receive a number **n**. On the next **n** lines, you will receive commands that could be:

* **Add, {CardName}**: Check if he already owns the wanted Card.
  + If he owns it, **print on console: "****Card is already bought"**
  + If not, **print on console: "****Card successfully bought"** and **add it** to the Card list.
* **Remove, {CardName}**: Check if he owns the Card.
  + If he owns it **print on console: "****Card successfully sold"** and **remove it** from the Card list.
  + If not **print on console: "****Card not found"**
* **Remove At, {index}**: Check if the **index** is in the range of the list.
  + If not **print on console: "****Index out of range"** and continue.
  + If it’s in range, **remove at the given index** and **print on console: "Card successfully sold"**
* **Insert, {index}, {CardName}**: Check if the **index** is in range of the list and **check if he already owns the Card**.
  + If not **print on console: "Index out of range"** and continue.
  + If it's in range and he doesn't own the Card, then **add the Card at the given index** and **print on** **console:**
    - **"Card successfully bought"**
  + If the Card is in range and he owns it already than **print on console:**
    - **"Card is already bought"**

After you go through all the commands you need to **print** the list **on a single line separated by ", ".**

### Input

* The **first input line** will contain the **list** of **already owned Cards**.
* The **second** **input line** will be the **number of commands** – an **integer number** in range [0…50].
* On the **next input lines** you will be receiving commands.

### Output

* As output you must print a single line containing the elements of the list, **joined** by **", "**.

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| T-34-85 Rudy, SU-100Y, STG  3  Add, King Tiger(C)  Insert, 2, IS-2M  Remove, T-34-85 Rudy | Card successfully bought  Card successfully bought  Card successfully sold  SU-100Y, IS-2M, STG, King Tiger(C) |
| **Comments** | |
| The first command gives the Card list so its splitted and added into the list.  **"T-34-85 Rudy, SU-100Y, STG"**  The second commands gives the number of commands that will be received.  **"3"**  The Add command adds the Card to the list after the necessary checks.  **"Add, King Tiger(C)" – "Card successfully bought"**  The Insert commands also adds the Card at the given spot after the necessary checks. **"Insert, 2, IS-2M" – "Card successfully bought"**  The Remove command is the last one and after the checks the Card is sold.  **"Remove, T-34-85 Rudy" – "Card successfully sold"**  After that we print the list on the console.  **"SU-100Y, IS-2M, STG, King Tiger(C)"** | |
| T 34, T 34 B, T92, AMX 13 57  4  Add, T 34  Remove, AMX CDC  Insert, 10, M60  Remove At, 1 | Card is already bought  Card not found  Index out of range  Card successfully sold  T 34, T92, AMX 13 57 |

### JS Input

The input will be provided as an array of strings

|  |  |
| --- | --- |
| **Input** | **Output** |
| (["T-34-85 Rudy, SU-100Y, STG",  "3",  "Add, King Tiger(C)",  "Insert, 2, IS-2M",  "Remove, T-34-85 Rudy"]) | Card successfully bought  Card successfully bought  Card successfully sold  SU-100Y, IS-2M, STG, King Tiger(C) |
| **Comments** | |
| The first command gives the Card list so its splitted and added into the list.  **"T-34-85 Rudy, SU-100Y, STG"**  The second commands gives the number of commands that will be received.  **"3"**  The Add command adds the Card to the list after the necessary checks.  **"Add, King Tiger(C)" – "Card successfully bought"**  The Insert commands also adds the Card at the given spot after the necessary checks. **"Insert, 2, IS-2M" – "Card successfully bought"**  The Remove command is the last one and after the checks the Card is sold.  **"Remove, T-34-85 Rudy" – "Card successfully sold"**  After that we print the list on the console.  **"SU-100Y, IS-2M, STG, King Tiger(C)"** | |
| (["T 34, T 34 B, T92, AMX 13 57",  "4",  "Add, T 34",  "Remove, AMX CDC",  "Insert, 10, M60",  "Remove At, 1"]) | Card is already bought  Card not found  Index out of range  Card successfully sold  T 34, T92, AMX 13 57 |