# Problem 2 – Volley Team

The national volley coach needs your help for improving the team! You are given an input data from the console. The first line represents all players in the team, separated by comma and whitespace. You will receive lines of information which contain actions about what happens to player of the team and name of a player, until command "STOP" or if there are no players left in the team. Your task is to print all players in the team.

You may receive the following actions:

* Add {player}
* Remove {player}
* Change {firstPlayer}|{secondPlayer}

If you receive the **Add action**, you should **add** the player to the team, but only **if** he isn`t in the team already.

* If the player isn't already in the team you should print in the console **"{playerName} has been added to the team."**.
* If the player is already part of the team you should print in the console **"{playerName} is already part of the team."**.

If you receive the **Remove action**, you must **remove** the player **if** he is in the team.

* If the player isn't already in the team you should print in the console **"{playerName} is not part of the team."**
* If the player is already part of the team you should print in the console **"{playerName} has been removed."**

If you receive the **Change action**, you must change the first player with the second player, but only if the first player is part of the team.

* If the first player is already in the team you should print in the console **"Successfully changed {firstPlayer} with {secondPlayer}."**
* If the player isn't already part of the team you should print in the console **"{playerName} is not part of the team."**.

If there are no players left in the team, you should print "There are no players left in the team." and stop the program.

## Input / Constraints

You will receive lines until command **"STOP"** or if thereare **no players left in the team**.

* In the **first line,** you will receive all the players in the team – sequence of player names, separated by comma and space.
* Each next line will be **action** and **player name**.

## Output

* When you get command **"STOP"** you must print all the players, separated by **“ , “** as output.

## Constraints

* The **actions will always be valid.**
* The **player will be a string containing only letters from the alphabet**.
* Allowed working **time** / **memory**: **100ms** / **16MB**.

## Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| Nikolay, Stefan, Velizar, Teodor  Add Alex  Remove Nikolay  STOP | Alex has been added to the team.  Nikolay has been removed.  Stefan, Velizar, Teodor, Alex |
| Nikolay, Asparyh, Stamat, Andrey, Kaloyan, Stefan  Change Asparyh|Velizar  Remove Kaloyan  Add Dimitar  Remove George  Add Dimitar  STOP | Successfully changed Asparyh with Velizar  Kaloyan has been removed.  Dimitar has been added to the team.  George is not part of the team.  Dimitar is already part of the team.  Nikolay, Velizar, Stamat, Andrey, Stefan, Dimitar |
| Nikolay, Alex, Konstantin  Remove Alex  Remove Nikolay  Change Alex|Velizar  Remove Konstantin | Alex has been removed.  Nikolay has been removed.  Alex is not part of the team.  Konstantin has been removed.  There are no players left in the team. |