# Problem 2. Shopping List

*It’s the end of the week and it is time for you to go shopping, so you need to create a shopping list first.*

### Input

You will receive an **initial list** with groceries separated by **"!"**.

After that you will be receiving **4 types** of commands, until you receive **"Go Shopping!"**

* **Urgent {item} -** **add** the item at the **start** of the list. If the item **already exists,** skip this command.
* **Unnecessary {item} - remove** the item with the given name, only **if it exists** in the list. Otherwise skip this command.
* **Correct {oldItem} {newItem} –** if the item with the given **old name** exists, **change** its name with the **new** one. If it **doesn't exist**, skip this command.
* **Rearrange {item} -** if the grocery exists in the list, **remove** it from its **current position** and **add** it at the **end** of the list.

### Constraints

* There won`t be any duplicate items in the initial list

### Output

Print the **list** with all the groceries, joined by **", ".**

* **"{firstGrocery}, {secondGrocery}, …{nthGrocery}"**

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| Tomatoes!Potatoes!Bread  Unnecessary Milk  Urgent Tomatoes  Go Shopping! | Tomatoes, Potatoes, Bread |
| **Input** | **Output** |
| Milk!Pepper!Salt!Water!Banana  Urgent Salt  Unnecessary Grapes  Correct Pepper Onion  Rearrange Grapes  Correct Tomatoes Potatoes  Go Shopping! | Milk, Onion, Salt, Water, Banana |

function shoppingList(arr) {

    arr.pop()

    let productArr = arr.shift().split('!')

    while (arr.length > 0) {

      let [command, product, newProduct] = arr.shift().split(' ')

      if (command == 'Urgent' && !productArr.includes(product)) {

        productArr.unshift(product)

      }

      if (command == 'Unnecessary' && productArr.includes(product)) {

        productArr = productArr.filter(el => el != product)

      }

      if (command == 'Correct' && productArr.includes(product)) {

        let index = productArr.indexOf(product)

        productArr.splice(index, 1, newProduct)

      }

      if (command == 'Rearrange' && productArr.includes(product)) {

        productArr = productArr.filter(el => el != product)

        productArr.push(product)

      }

    }

    return productArr.join(', ')

  }

// shoppingList([`Tomatoes!Potatoes!Bread`,`Unnecessary Milk`,`Urgent Tomatoes`,`Go Shopping!`])

shoppingList([`Milk!Pepper!Salt!Water!Banana`,`Urgent Salt`,`Unnecessary Grapes`,`Correct Pepper Onion`,`Rearrange Grapes`,`Correct Tomatoes Potatoes`,`Go Shopping!`]);