

The start have 3 options first enter as an admin ,second as a user and the third is exit and close the program

```
=====
Supermarket billing system
=====
1.Admin access
2.User access
3.Exit
█
```

1.If you entered as an admin you'll find 6 options, but you have to enter the password first.

P.S. the password is : acu

```
enter your password
you have 3 attempts
acu
=====
Welcome
=====
You've just entered as an admin
1.Add an item
2.Delete an item
3.Traversal the items
4.search for an item
5.update an item
6.sort the linked list
```

1. To add an item and you can insert it add the beginning or after another specific item or add it after all of the items

```
=====
1.Add at the beginning
2.Add after an exist item
3.Add at the end
```

- 1.to add the beginning
- 2.to add after a specific item
- 3.to add the end

```
1.Add at the beginning
2.Add after an exist item
3.Add at the end
2
enter the serial number of the previous item
1102
enter the name of the new item
Milk
enter the serial number of the new item
1111
enter the price of the new item
2.3
the list of items after the edit
the current items in the supermarket :
the item name :galaxy chocolate
the item serial number:1101
the item price :3.5
the item name :juice
the item serial number:1102
the item price :1.5
the item name :Milk
the item serial number:1111
the item price :2
the item name :eggs
the item serial number:1103
the item price :4
the item name :pepsi
the item serial number:1104
the item price :0.75
the item name :ice cream
```

As you can see now that's after adding an item after another previous one

So you can see after that the program asks you to enter yes if you want to continue or no to close the program

2. If you want to delete an item and also you have the same 3 options so I'll choose to delete the head now and you can see that works.

```
=====
```

```
1.Delete at the beginning
```

```
2.Delete the middle
```

```
3.Delete the tail
```

```
1
```

```
the list of items after the edit
```

```
the current items in the supermarket :
```

```
the item name :juice
```

```
the item serial number:1102
```

```
the item price :1.5
```

```
the item name :Milk
```

```
the item serial number:1111
```

```
the item price :2
```

```
the item name :eggs
```

```
the item serial number:1103
```

```
the item price :4
```

```
the item name :pepsi
```

```
the item serial number:1104
```

```
the item price :0.75
```

```
the item name :ice cream
```

```
the item serial number:1105
```

```
the item price :3
```

```
the item name :rice
```

```
the item serial number:1106
```

```
the item price :1.75
```

3.to print the list of the items

```
the current items in the supermarket :  
the item name :galaxy chocolate  
the item serial number:1101  
the item price :3.5  
the item name :juice  
the item serial number:1102  
the item price :1.5  
the item name :eggs  
the item serial number:1103  
the item price :4  
the item name :pepsi  
the item serial number:1104  
the item price :0.75  
the item name :ice cream  
the item serial number:1105  
the item price :3  
the item name :rice  
the item serial number:1106  
the item price :1.75  
the item name :chips  
the item serial number:1107  
the item price :1  
the item name :pasta  
the item serial number:1108  
the item price :2  
the item name :salt  
the item serial number:1109  
the item price :0.5  
the item name :Orio  
the item serial number:1110  
the item price :2.5  
if you want to start over again please enter yes or enter no to exit
```

4.to search for an item with the serial number

```
4
Enter the serial number of the product tha you're searching for
1105
1105 is found at index = 5.
Item name:ice cream
Item price: 3
Item serial number:1105
if you want to start over again please enter yes or enter no to exit
```

5.to update an item data using the serial number

```
5
enter the old serial number of the item
1101
enter the new name of the item
milk
enter the new serial number of the item
1111
enter the new price of the item
2.20
the list of items after the edit
the current items in the supermarket :
the item name :milk
the item serial number:1111
the item price :2
the item name :juice
the item serial number:1102
the item price :1.5
the item name :eggs
the item serial number:1103
the item price :4
the item name :pepsi
the item serial number:1104
the item price :0.75
the item name :ice cream
the item serial number:1105
the item price :3
the item name :rice
the item serial number:1106
the item price :1.75
the item name :chips
```

6.to sort the items from the lowest serial number to the highest serial number


```
5
enter the old serial number of the item
1101
enter the new name of the item
milk
enter the new serial number of the item
1111
enter the new price of the item
2.20
the list of items after the edit
the current items in the supermarket :
the item name :milk
the item serial number:1111
the item price :2
the item name :juice
the item serial number:1102
the item price :1.5
the item name :eggs
the item serial number:1103
the item price :4
the item name :pepsi
the item serial number:1104
the item price :0.75
the item name :ice cream
the item serial number:1105
the item price :3
the item name :rice
the item serial number:1106
the item price :1.75
the item name :chips
```

You can see that milk was at the begginig before the sort but now it's at the end.

And now the second main option if you entered as a user

```
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█
```

You'll find to options

```
Supermarket billing system
=====
1.Admin access
2.User access
3.Exit
2
=====
Welcome
=====
You've just entered as a user
1.search for an item
2.Make an order
```

And we know how the search works from the previous examples, now lets see if we want to buy something

2

=====

Items

=====

1.Orio	\$2.50
2.Salt	\$0.50
3.Pasta	\$2.00
4.Chips	\$1.00
5.Rice	\$1.75
6.IceCream	\$3.00
7.Pepsi	\$0.75
8.Eggs	\$4.00
9.Juice	\$1.50
10.Galaxy Chocolate	\$3.50

Please choose the number of the item that you want from the list from 1 to 10

1

if you want to add something else please enter yes or enter no to exit

yes

=====

Items

=====

1.Orio	\$2.50
2.Salt	\$0.50
3.Pasta	\$2.00
4.Chips	\$1.00
5.Rice	\$1.75
6.IceCream	\$3.00
7.Pepsi	\$0.75
8.Eggs	\$4.00
9.Juice	\$1.50
10.Galaxy Chocolate	\$3.50

Please choose the number of the item that you want from the list from 1 to 10

10

After ordering you will get the receipt

```
if you want to add something else please enter yes or enter no to exit
no
=====
your order is :
Orio                                $2.50
Galaxy Chocolate                    $3.50
=====
your order price is: $3.03
the tax amount is : $0.4242
total price after adding 14% tax is: $3.4542
=====
if you want to start over again please enter yes or enter no to exit
```

And the last option :

3.exit to end the program

```
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