#Problem 1

cart = [{"product":'p1', "price":100},{"product":'p2', 'price':200},{"coupon":'c1', 'disc':40},{"product":'p3', 'price':400}, {"coupon":'c2', 'disc':10}, {"product":'p4', 'price':600}];

Get the final price of the cart, apply the coupon to the very previous item in the cart. The coupon discount value is in percentage.

```
lastprice=0
pr = 0

for c in cart:

        if("coupon" in c):
                pr-=(lastprice*c["disc"])/100

        if("product" in c):
                lastprice = c["price"]
                pr+=lastprice


print(pr)
```

//Problem 2

//Reverse a LinkedList

```
#include<iostream>
using namespace std;

struct Node{

	int val;
	struct Node* next;

	Node(int data){
		this->val = data;
		next = NULL;
	}

};

struct Linkedlist{
	Node* head;

	Linkedlist(){
		head=NULL;
	}

	void reverse(){
		Node *curr = head;
		Node *prev = NULL;
		Node *next = NULL;

		while(curr!=NULL){
			next = curr->next;			// 1 2 3 4 5
			curr->next = prev;
			prev = curr;
			curr = next;
		}

		head = prev;
	}

	void push(int data){
		Node* temp = new Node(data);
		temp->next = head;
		head = temp;
	}

	void print(){
		struct Node* temp = head;
		while(temp!=NULL){
			cout<<temp->val<<" ";
			temp = temp->next;
```

```
                }
        }


};

int main(){

        Linkedlist l1;
        l1.push(10);
        l1.push(20);
        l1.push(30);
        l1.push(40);

        // l1.reverse();
        l1.print();


}
```