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1 Given an unsorted doubley linked list containing 'n' nodes of USN and Name. Write a program to remove the given USN node from the given list

```
#include<stdio.h>
#include<string.h>
#include<stdlib.h>
struct node
{
  char USN[30];
  char name[30];
  struct node* next;
  struct node* prev;
};
struct node *head=NULL;
void insertend()
{ struct node* new_node, *temp;
  new_node=(struct node*) malloc(size of(str
  printf("Enter USN \n");
  scanf("%s", new_node->USN);
  printf("Enter name\n");
  scanf("%s", new_node->name);
  new_node->next=NULL;
  new_node->prev=NULL;
  if(head==NULL){
  head=new_node;
}
```

```
else
{
 temp = head;
 while(temp -> next != NULL)
 temp = temp -> next;
 temp -> next = new_node;
 new node -> prev = temp;
}
}
void del()
{
 struct node *temp;
 char ele[30];
 if(head == NULL)
{
 printf("Empty");
 return;
}
 printf("Enter usn to be deted");
 scanf("%s", ele);
 temp = head;
 while(strcmp(temp -> usn, ele) != 0){
 { temp = temp -> next }
 if(temp == NULL){
 printf("Element is not in list");
 break;
}
 if(temp == head){
 head = head -> next;
{
```

```
else{
temp→prev→next=temp→next;
temp→next→prev=temp→prev;
}
}
void display()
{struct node *temp;
temp=head;
while(temp!=NULL).
{printf("USN:%s\n",temp→usn);
("name:%s\n",temp→name);
temp=temp→next;
}
printf("\n");
}
int main()
{ int choice;
while(1)
{ printf("1.insert usn").
printf("2.delete usn")
("3.display");
("4.exit");
("Enter choice");
scanf("%d",&choice);
switch(choice)
{ case 1: insert_end();
break;
case 2: del();break;
case 3: display();break;
case 4: exit(0);
}}}
```

@ly