```c
#include<stdio.h>

#include<conio.h>

#include<stdlib.h>


struct node

{

 char usn[20],name[20],branch[10],phone[11];

 int sem;

 struct node *next;

};


typedef struct node *NODE;

NODE temp, head=NULL;


NODE getnode()

{

        NODE temp;

        temp=(NODE)malloc(sizeof(struct node));

        temp->next=NULL;

        printf("\n Enter USN, Name, branch, phone number and semester :");

        scanf("%s%s%s%s%d",temp->usn,temp->name, temp->branch, temp->phone, &temp->sem);

        return temp;

}


void insert_beg()

{

NODE temp=getnode();

 if(head != NULL)

        temp->next=head;

 head=temp;

}
```

```c
void create()
{
 int n,i=0;

  printf("Enter the number of students \n");
  scanf("%d",&n);

  for(i=1;i<=n;i++)
          insert_beg();
}

void del_beg()
{
  NODE tt=head;

  if(head==NULL)
          printf("\n No nodes to delete ");
  else
   {
     if(head->next==NULL)
            head=NULL;
     else
        {
          head=head->next;
          free(tt);
        }
   }
}

void insert_end()
```

```c
{
  NODE temp=getnode();
  NODE tt;

  if(head==NULL)
        head=temp;
  else
    for(tt=head;tt->next!=NULL;tt=tt->next)
        {    }
    tt->next=temp;
}

void del_end()
{
  NODE tt,p;

  if(head==NULL)
    printf("\n No Nodes to delete \n");
  else
  {
    if(head->next==NULL)
        head=NULL;
    else
    {
        for(tt=head;tt->next->next!=NULL;tt=tt->next)
            {
            }
        p=tt->next;
        tt->next=NULL;
        free(p);
    }
```

```c
    }
}


void disp()
{
NODE tt;
int c=0;

if(head==NULL)
        printf("the student detail is NULL and count is ZERO");
else
{
printf("\n USN\t Name\t Branch\t Ph.No \tSem \n");
printf("\n********************************************************\n");

  for(tt=head;tt!=NULL;tt=tt->next)
   {
        c++;
        printf("\n %s\t%s\t%s\t%s\t%d",tt->usn,tt->name,tt->branch,tt->phone,tt->sem);
   }
   printf("\n Student count is %d\n",c);
}
}


void main()
{
 int ch;

 while(1)
 {
```

```c
printf("\n1.create  2.insert_beg 3.insert_end 4.del_beg 5.del_end 6.Display Any other key to exit\n");

printf("\n\nEnter Your Choice: ");

scanf("%d",&ch);


        switch(ch)
        {
        case 1:create();
                break;
        case 2:insert_beg();
                break;
        case 3: insert_end();
                break;
        case 4: del_beg();
                 break;
        case 5:del_end();
                break;
        case 6:disp();
                break;
        default: exit(0);
         }
 }
}
```