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#include<stdio.h>
#include<stdlib.h>
#include<string.h>
struct node{
    int number;
    char name[30];
    int t mark;
    struct node *link;
} ;
struct node* header = NULL;
void display();
void add();
void delete();
void search();
int main()
int choice;
char ch;
     while (1) {
        printf("1.Display\n2.add data\n3.delete\n4.Search");
          scanf("%d", &choice);
          switch (choice) {
          case 1:
               display();
               break;
          case 2:
               add();
               break;
          case 3:
               delete();
               break;
        case 4:
            search();
            break;
          default:
               printf("Incorrect Choice\n");
          printf("\nDo you want to continue y/n ");
          scanf(" %ch",&ch);
          if(ch == 'n'){
               break;
          }
    }
```

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return 0;
void display() {
    struct node*temp;
    if(header==NULL)
        printf("Empty");
    else{
        temp = header;
        while (temp!=NULL)
            printf("Roll no :%d\t Name : %s\t Total mark: %d
\n", temp->number, temp->name, temp->t mark);
            temp = temp->link;
        }
    }
}
void add() {
    int no, mark;
    char s[30];
    struct node*temp,*ptr;
    temp = malloc(sizeof(struct node));
    printf("Enter the Roll No");
    scanf("%d", &no);
    printf("Enter Name");
    scanf("%s",s);
    printf("Enter Total mark");
    scanf("%d",&mark);
    temp->number=no;
    strcpy(temp->name,s);
    temp->t mark=mark;
    temp->link=NULL;
    ptr = header;
    if(ptr==NULL) {
    header = temp;
    else{
    while(ptr->link!=NULL) {
        ptr=ptr->link;
    ptr->link=temp;
```

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}
void delete() {
     struct node *temp, *position;
     int i=1, pos=1, no;
     if (header == NULL)
          printf("\nEmpty");
     else {
          printf("\nEnter Roll No");
          scanf("%d", &no);
          position = malloc(sizeof(struct node));
        temp = malloc(sizeof(struct node));
          temp = header;
          while (temp->number!=no) {
                pos++;
            temp=temp->link;
           }
        temp= header;
        while (i < pos-1) {
               temp = temp->link;
                i++;
          position = temp->link;
          temp->link = position->link;
     }
}
void search() {
    struct node *temp;
    int no, flag=0;
    temp = malloc(sizeof(struct node));
    if (header==NULL) {
        printf("Empty");
    }else{
        printf("Enter Roll no to search");
        scanf("%d", &no);
        temp = header;
        do
        {
             if(temp->number==no) {
                 flag =1;
                 break;
             }
```

```
temp = temp->link;

} while (temp!=NULL);
if (flag==1)
{
    printf("Data found");
}
else{
    printf("Data not found");
}
```

}