

```


1 #include<stdio.h>
2 #include<string.h>
3 #include<stdlib.h>
4 struct node
5 {
6     char USN[30];
7     char name[30];
8     struct node *next;
9     struct node *prev;
10 };
11 struct node *head=NULL;
12
13
14 void insert_end()
15 {
16     struct node *new_node,*temp;
17     new_node=(struct node*)malloc(sizeof(struct node));
18     printf("Enter USN:\n");
19     scanf("%s",new_node->USN);
20     printf("Enter name:\n");
21     scanf("%s",new_node->name);
22     new_node->next=NULL;
23     new_node->prev=NULL;
24     if(head==NULL)
25     {
26         head=new_node;
27     }
28     else
29     {
30         temp=head;
31         while(temp->next!=NULL)
32             temp=temp->next;
33         temp->next=new_node;
34         new_node->prev=temp;
35     }
36 }
37

```

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38 }
39
40 void del()
41 {
42     struct node *temp;
43     char ele[30];
44     if(head==NULL)
45     {
46         printf("Empty List. \n");
47         return;
48     }
49     printf("Enter USN to be deleted:\n");
50     scanf("%s",ele);
51     temp=head;
52     while(strcmp(temp->USN,ele)!=0)
53     {
54         temp=temp->next;
55         if(temp==NULL)
56         {
57             printf("Element is not in the list.\n");
58             break;
59         }
60     }
61     if(temp==head)
62     {
63         head=head->next;
64     }
65     else if(temp->next==NULL)
66     {
67         temp=temp->prev;
68         temp->next=NULL;
69     }
70
71     else
72     {
73         temp->prev->next=temp->next;
74         temp->next->prev=temp->prev;

```


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```
73     temp->prev->next=temp->next;
74     temp->next->prev=temp->prev;
75 }
76 }
77 void display()
78 {
79     struct node *temp;
80     temp=head;
81     while(temp!=NULL)
82     {
83         printf("-----\n");
84         printf("USN:%s\n",temp->USN);
85         printf("Name:%s\n",temp->name);
86         printf("-----\n");
87         temp=temp->next;
88     }
89     printf("\n");
90 }
91
92
93 int min()
94 {
95     int choice;
96
97     while(1)
98     {
99         printf(" 1.Insert  \n");
100        printf(" 2.Delete  \n");
101        printf(" 3.Display\n");
102        printf(" 4.Exit\n");
103        printf("Enter choice: \n");
104        scanf("%d",&choice);
105        switch(choice)
106        {
107
108            case 1: insert_end();break;
109
```

```
79 struct node *temp;
80 temp=head;
81 while(temp!=NULL)
82 {
83     printf("-----\n");
84     printf("USN:%s\n",temp->USN);
85     printf("Name:%s\n",temp->name);
86     printf("-----\n");
87     temp=temp->next;
88 }
89 printf("\n");
90 }
91
92
93 int main()
94 {
95     int choice;
96
97     while(1)
98     {
99         printf(" 1.Insert  \n");
100         printf(" 2.Delete  \n");
101         printf(" 3.Display\n");
102         printf(" 4.Exit\n");
103         printf("Enter choice: \n");
104         scanf("%d",&choice);
105         switch(choice)
106         {
107
108             case 1: insert_end();break;
109
110             case 2: del(); break;
111             case 3: display(); break;
112             case 4: exit(0);
113         }
114     }
115 }
```