

equaledMatureBot

C



Run ►

main.c

```
1 #include<stdio.h>
2 #include<stdlib.h>
3
4
5 struct node
6 {
7     int data;
8     struct node *next;
9 };
10
11 struct node *head=NULL;
12
13 int length=0;
14
15 void insertend(int ele)
16 {
17     struct node *newnode,*temp;
18     newnode=(struct node*)malloc(sizeof(struct node));
19     newnode->data=ele;
20     newnode->next=NULL;
21     if(head==NULL)
22     {
23         head=newnode;
24         length=1;
25     }
26     else
27     {
28         temp=(struct node*)malloc(sizeof(struct node));
```

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```
29     temp=head;
30     while(temp->next!=NULL)
31     {
32         temp=temp->next;
33     }
34     temp->next=newnode;
35     length++;
36 }
37
38 }
39
40 void insertfront(int ele)
41 {
42     struct node *temp;
43     temp=(struct node*)malloc(sizeof(struct node));
44     temp->data=ele;
45     temp->next=head;
46     head=temp;
47     length++;
48 }
49
50 void insertrandom(int ele,int pos)
51 {
52     if(pos==1)
53         insertfront(ele);
54     else if(pos>=length+1)
55         insertend(ele);
56     else
57     {
```

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```
57  {
58      struct node *inst;
59      inst=(struct node*)malloc(sizeof(struct node));
60      struct node *temp;
61      temp=(struct node*)malloc(sizeof(struct node));
62      temp=head;
63      for(int i=1;i<pos-1;i++)
64      {
65          temp=temp->next;
66      }
67      inst->data=ele;
68      inst->next=temp->next;
69      temp->next=inst;
70      length++;
71
72  }
73
74 }
75
76 void deletefront()
77 {
78     if(length==0)
79     {
80         printf("\nList is empty.\n");
81     }
82     else
83     {
84         struct node *temp;
85         temp=(struct node*)malloc(sizeof(struct node));
```

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```
85     temp=head;
86     head=head->next;
87     temp->next=NULL;
88     length--;
89     printf("\nThe element deleted is : %d",temp->data)
90 }
91 }
92
93 void deleteend()
94 {
95     if(length==0)
96     {
97         printf("\nList is empty.\n");
98     }
99     else
100    {
101        struct node *temp;
102        temp=(struct node*)malloc(sizeof(struct node));
103        temp=head;
104        while(temp->next->next!=NULL)
105        {
106            temp=temp->next;
107        }
108        struct node *del;
109        del=(struct node*)malloc(sizeof(struct node));
110        del=temp->next;
111        temp->next=NULL;
112        length--;
```

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ain.c

```
12     printf("\nThe element deleted is : %d",del->data);
13 }
14 }
15
16 void deleterandom(int pos)
17 {
18     if(length==0)
19         printf("\nList is empty.\n");
20     else if(pos==1)
21         deletefront();
22     else if(pos>=length+1)
23         deleteend();
24     else
25     {
26         struct node *del;
27         del=(struct node*)malloc(sizeof(struct node));
28         struct node *temp;
29         temp=(struct node*)malloc(sizeof(struct node));
30         temp=head;
31         for(int i=1;i<pos-1;i++)
32         {
33             temp=temp->next;
34         }
35         del=temp->next;
36         temp->next=del->next;
37         del->next=NULL;
38         length--;
39         printf("\nThe element deleted is : %d",del->data);
```

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main.c

```
140
141 }
142
143 }
144 void display()
145 {
146     struct node *temp;
147     temp=(struct node*)malloc(sizeof(struct node));
148     temp=head;
149     if(temp==NULL)
150     {
151         printf("\n List is empty \n");
152     }
153     else
154     {
155         printf("\nThe contents of the list are :\n");
156         while(temp!=NULL)
157         {
158             printf("%d\n",temp->data);
159             temp=temp->next;
160         }
161     }
162
163 }
164
165 int main()
166 {
167     int choice,ele,pos;
```

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```
67     int choice,ele,pos;
68     char ch;
69     do
70     {
71         printf("\n1. Insert at end \n2. Insert at front
72             \n3. Insert at random position \n4. Display \n5.
73             Delete at front \n6. Delete at end \n7. Delete at
74             random \n8. Exit");
75         printf("\nEnter your choice : ");
76         scanf("%d",&choice);
77         switch(choice)
78         {
79             case 1: printf("Enter the element to be
80                     inserted\n");
81                 scanf("%d",&ele);
82                 insertend(ele);
83                 break;
84             case 2: printf("Enter the element to be
85                     inserted\n");
86                 scanf("%d",&ele);
87                 insertfront(ele);
88                 break;
89             case 3: printf("Enter the element to be
90                     inserted\n");
91                 scanf("%d",&ele);
92                 printf("Enter the position \n");
93                 scanf("%d",&pos);
94                 insertrandom(pos,ele);
```

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```
    inserted\n");
185        scanf("%d",&ele);
186        printf("Enter the position \n");
187        scanf("%d",&pos);
188        insertrandom(ele,pos);
189        break;
190    case 4: display();
191        break;
192    case 5: deletefront();
193        break;
194    case 6: deleteend();
195        break;
196    case 7: printf("\nEnter the position : ");
197        scanf("%d",&pos);
198        deleterandom(pos);
199        break;
200    }
201 }while(choice!=8);
202 return 0;
203 }
```