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doublyll.c lab9.c polynomial.c binarytree.c stringdll.c oll.c linkedlist1.c circularll.c concatlist.c harsh.c

```c
#include<stdio.h>
#include<process.h>
#include<stdlib.h>
struct node
{
    int data;
    struct node *next;
    struct node *prev;
};
struct node *head=NULL;
void insert_beg()
{
     struct node *new_node;
     new_node=(struct node*)malloc(sizeof(struct node));
     printf("Enter the item\n");
     scanf("%d",&new_node->data);
     new_node->next=NULL;
     new_node->prev=NULL;

     if(head==NULL)
     {
            head=new_node;
     }
     else
     {
            new_node->next=head;
            head->prev=new_node;
            head=new_node;
     }

}

void insert_end()
{
    struct node *new_node,*temp;
    new_node=(struct node*)malloc(sizeof(struct node));
    printf("Enter the item\n");
```

9 col: 19 sel: 0 INS TAB mode: CRLF encoding: UTF-8 filetype: C scope: unknown

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```
34  {
35      struct node *new_node,*temp;
36      new_node=(struct node*)malloc(sizeof(struct node));
37      printf("Enter the item\n");
38      scanf("%d",&new_node->data);
39      new_node->next=NULL;
40      new_node->prev=NULL;
41      if(head==NULL)
42      {
43          head=new_node;
44      }
45      else
46      {
47           temp=head;
48           while(temp->next!=NULL)
49           temp=temp->next;
50           temp->next=new_node;
51           new_node->prev=temp;
52
53      }
54
55  }
56  void insert_between()
57  {
58      int listele;
59      struct node *new_node,*temp;
60      printf("Enter the element in the list\n");
61      scanf("%d",&listele);
62      new_node=(struct node*)malloc(sizeof(struct node));
63      printf("Enter the new node data\n");
64      scanf("%d",&new_node->data);
65      new_node->next=NULL;
66      new_node->prev=NULL;
67      if(head==NULL)
68      {
69          printf("Empty list\n"); return;
70      }
```

line: 68 / 159 col: 1 sel: 0 INS TAB mode: CRLF encoding: UTF-8 filetype: C scope: insert_between

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doublyll.c lab9.c polynomial.c binarytree.c stringdll.c oll.c linkedlist1.c circularll.c concatlist.c harsh.c lab5.c lab2.c

```
65      new_node->next=NULL;
66      new_node->prev=NULL;
67      if(head==NULL)
68      {
69          printf("Empty list\n"); return;
70      }
71      temp=head;
72      while(temp->data!=listele)
73      {
74          temp=temp->next;
75          if(temp==NULL)
76          {
77              printf("Element is  not in the list");
78              return;
79          }
80      }
81      new_node->next=temp->next;
82      temp->next=new_node;
83      new_node->prev=temp;
84      new_node->next->prev=new_node;
85  }
86  void del()
87  {
88      struct node *temp;
89      int ele;
90      if(head==NULL)
91      {
92          printf("Empty List \n");
93          return;
94      }
95      printf("Enter the element to be deleted\n");
96      scanf("%d",&ele);
97      temp=head;
98      while(temp->data!=ele)
99      {
100         temp=temp->next;
101         if(temp==NULL)
```

159 col: 0 sel: 0 INS TAB mode: CRLF encoding: UTF-8 filetype: C scope: del

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Doc doublyll.c lab9.c polynomial.c binarytree.c stringdll.c oll.c linkedlist1.c circularll.c concatlist.c harsh.c lab5.c

```
123  void display()
124  {
125       struct node *temp;
126       temp=head;
127       while(temp!=NULL)
128       {
129           printf("%d\t",temp->data);
130           temp=temp->next;
131       }
132       printf("\n");
133  }
134  int main()
135  {
136      int choice;
137
138       while(1)
139       {
140              printf(" 1. Insert at the beg \n");
141              printf(" 2. Insert at the end \n");
142              printf(" 3. Insert after a given node\n");
143              printf(" 4. Delete \n");
144              printf(" 5. Display\n");
145              printf(" 6. Exit\n");
146              printf("Enter your choice\n");
147              scanf("%d",&choice);
148              switch(choice)
149              {
150                   case 1: insert_beg(); break;
151                   case 2: insert_end();break;
152                   case 3: insert_between();break;
153                   case 4: del(); break;
154                   case 5: display(); break;
155                   case 6: exit(0);
156              }
157       }
158  }
159
```

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Doc doublyll.c lab9.c polynomial.c binarytree.c stringdll.c oll.c linkedlist1.c circularll.c concatlist.c harsh.c lab5.c lab2.c lab8.

```
 96      scanf("%d",&ele);
 97      temp=head;
 98      while(temp->data!=ele)
 99      {
100          temp=temp->next;
101          if(temp==NULL)
102          {
103           printf("Element is not in the list\n");
104           break;
105          }
106       }
107       if(temp==head)
108       {
109           head=head->next;
110       }
111       else if(temp->next==NULL)
112       {
113              temp=temp->prev;
114              temp->next=NULL;
115       }
116
117       else
118       {
119           temp->prev->next=temp->next;
120           temp->next->prev=temp->prev;
121       }
122  }
123  void display()
124  {
125       struct node *temp;
126       temp=head;
127       while(temp!=NULL)
128       {
129           printf("%d\t",temp->data);
130           temp=temp->next;
131       }
132       printf("\n");
```

line: 132 / 159 col: 0 sel: 0 INS TAB mode: CRLF encoding: UTF-8 filetype: C scope: display

```
1. Insert at the beg
2. Insert at the end
3. Insert after a given node
4. Delete
5. Display
6. Exit
Enter your choice
1
Enter the item
11
 1. Insert at the beg
 2. Insert at the end
 3. Insert after a given node
 4. Delete
 5. Display
 6. Exit
Enter your choice
1
Enter the item
13
 1. Insert at the beg
 2. Insert at the end
 3. Insert after a given node
 4. Delete
 5. Display
 6. Exit
Enter your choice
1
Enter the item
2
 1. Insert at the beg
 2. Insert at the end
 3. Insert after a given node
 4. Delete
 5. Display
 6. Exit
Enter your choice
1
Enter the item
43
 1. Insert at the beg
 2. Insert at the end
 3. Insert after a given node
```

```
 6. Exit
Enter your choice
1
Enter the item
43
 1. Insert at the beg
 2. Insert at the end
 3. Insert after a given node
 4. Delete
 5. Display
 6. Exit
Enter your choice
1
Enter the item
1
 1. Insert at the beg
 2. Insert at the end
 3. Insert after a given node
 4. Delete
 5. Display
 6. Exit
Enter your choice
5
1       43      2       13      11
 1. Insert at the beg
 2. Insert at the end
 3. Insert after a given node
 4. Delete
 5. Display
 6. Exit
Enter your choice
3
Enter the element in the list
2
Enter the new node data
22
 1. Insert at the beg
 2. Insert at the end
 3. Insert after a given node
 4. Delete
 5. Display
 6. Exit
Enter your choice
```

```
Enter the element in the list
2
Enter the new node data
22
 1. Insert at the beg
 2. Insert at the end
 3. Insert after a given node
 4. Delete
 5. Display
 6. Exit
Enter your choice
5
1       43      2       22      13      11
 1. Insert at the beg
 2. Insert at the end
 3. Insert after a given node
 4. Delete
 5. Display
 6. Exit
Enter your choice
4
Enter the element to be deleted
43
 1. Insert at the beg
 2. Insert at the end
 3. Insert after a given node
 4. Delete
 5. Display
 6. Exit
Enter your choice
5
1       2       22      13      11
 1. Insert at the beg
 2. Insert at the end
 3. Insert after a given node
 4. Delete
 5. Display
 6. Exit
Enter your choice
4
Enter the element to be deleted
9
Element is not in the list
```