```c
//Doubly linked list
//insert front,delete function and display
#include<stdio.h>
#include<stdlib.h>

struct node
{
    int data;
    struct node *next,*prev;
};

void insertFront(struct node **headptr,int value)
{
    struct node *newnode;
    newnode = (struct node*)malloc(sizeof(struct node));
    newnode->data = value;
    newnode->next = NULL;
    newnode->prev = NULL;
    if(*headptr == NULL)
        *headptr = newnode;
    else
    {
        newnode->next = *headptr;
        (*headptr)->prev = newnode;
        *headptr = newnode;
    }
}
void delFunc(struct node **headptr,int value)
{
    struct node *temp,*del;
    temp = *headptr;
    if(temp == NULL)
    {
        printf("The list is empty!!!\n");
        return;
    }
    else if(temp->next == NULL)
    {
        *headptr = NULL;
    }
    else
    {
        if((*headptr)->data == value)
        {
```

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45              (*headptr) = (*headptr)->next;
46              (*headptr)->prev = NULL;
47              printf("The value has been deleted!!!\n");
48                  return;
49          }
50          while(temp->next != NULL)
51          {
52              if((temp->next)->data == value)
53              {
54                  del = temp->next;
55                  temp->next = del->next;
56                  (temp->next)->prev = temp;
57                  printf("The value has been deleted!!!\n");
58                  return;
59              }
60              temp = temp->next;
61          }
62          printf("The element was not found!!!\n");
63      }
64  }
65  void display(struct node *temp)
66  {
67      if(temp == NULL)
68      {
69          printf("List is Empty!!!\n");
70          return;
71      }
72      else
73      {
74          while(temp != NULL)
75          {
76              printf("%d\t",temp->data);
77              temp = temp->next;
78          }
79          printf("\n");
80      }
81  }
82  int main(int argc, char **argv)
83  {
84      struct node *head = NULL;
85      int choice,ele;
86      while(choice != 4)
87      {
88          printf("Enter choice 1)Insert Front 2)Delete Element 3)Display 4)Exit: ");
89          scanf("%d",&choice);
90          switch(choice)
91          {
92              case 1:printf("Enter value to be inserted:");scanf("%d",&ele);insertFront(&head,ele);break;
93              case 2:printf("Enter value to be deleted:");scanf("%d",&ele);delFunc(&head,ele);break;
94              case 3:display(head);break;
95              case 4:exit(0);
96              default:exit(0);
97          }
98      }
99      return 0;
100 }
```