```
volur or.v • doublyll.c × test.java × import java.util.*; • game.java × quiz.java × wordtest.java
      #include<stdio.h>
#include<stdlib.h>
struct node
           int data;
struct node *next;
            struct node *prev;
      struct node *head=NULL;
       void insertleft()
             struct node *new_node;
             new_node=(struct node*)malloc(sizeof(struct node));
            printf("Enter the number: \n");
scanf("%d", &new_node->data);
new_node->next=NULL;
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             new_node->prev=NULL;
             if(head==NULL)
{
                     head=new_node;
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                     new_node->next=head;
                     head->prev=new_node;
                     head=new_node;
             }
```

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volur or.v
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     void del()
         struct node *temp;
         int elem;
if(head==NULL)
{
             printf("Empty List \n");
        printf("Enter the element to be deleted\n");
scanf("%d",&elem);
temp=head;
            le(temp->data!=elem)
             temp=temp->next;
             if(temp==NULL)
{
             printf("Element is not in the list\n");
            return;
}
           if(temp==head)
             head=head->next;
           lse if(temp->next==NULL)
                temp=temp->prev;
temp->next=NULL;
              temp->prev->next=temp->next;
              temp->next->prev=temp->prev;
```

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void insert_betweenL()
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            int listele;
            rnt tistete;
struct node *new_node, *temp;
printf("Enter the element in the list\n");
scanf("%d", &listele);
new_node=(struct node*)malloc(sizeof(struct printf("Enter the new node data\n");
scanf("%d", &new_node->data);
                                                          of(struct node));
            new_node->next=NULL;
            new_node->prev=NULL;
              f(head==NULL)
                 printf("Empty list\n"); return;
            temp=head;
                 le(temp->data!=listele)
                 temp=temp->next;
                   f(temp==NULL)
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                       printf("Element is not in the list");
            new_node->prev=temp->prev;
            temp->prev=new_node;
new_node->next=temp;
            new_node->prev->next=new_node;
```

```
doublyll.c ×
      void insert_betweenR()
103
           int listele;
           struct node *new_node,*temp;
printf("Enter the element in the list\n");
           scanf("%d",&listele);
           new_node=(struct node*)malloc(sizeof(struct node));
           printf("Enter the new node data\n");
           scanf("%d",&new_node->data);
           new_node->next=NULL;
           new_node->prev=NULL;
           if(head==NULL)
           {
               printf("Empty list\n"); return;
           temp=head;
              le(temp->data!=listele)
               temp=temp->next;
               if(temp==NULL)
               {
                   printf("Element is not in the list");
124
               }
           new_node->next=temp->next;
           temp->next=new_node;
           new_node->prev=temp;
           new_node->next->prev=new_node;
      void display()
            struct node *temp;
            temp=head;
               le(temp!=NULL)
                printf("%d\t",temp->data);
                temp=temp->next;
            printf("\n");
```

```
1. Insert to the left in the beginning
 2.insert a node before a given node
 3.insert a node after a given node
 4. delete
 5. display
 6. exit
Enter your choice:
Enter the number:
22
 1. Insert to the left in the beginning
 2.insert a node before a given node
 3.insert a node after a given node
 4. delete
 5. display
 6. exit
Enter your choice:
Enter the number:
33
```

```
2.insert a node before a given node
 3.insert a node after a given node
 4. delete
 5. display
 6. exit
Enter your choice:
Enter the number:
44
1. Insert to the left in the beginning
2.insert a node before a given node
 3.insert a node after a given node
 4. delete
 5. display
 6. exit
Enter your choice:
       33
                22
 1. Insert to the left in the beginning
 2.insert a node before a given node
 3.insert a node after a given node
4. delete
5. display
6. exit
Enter your choice:
Enter the element in the list
Enter the new node data
1. Insert to the left in the beginning
2.insert a node before a given node
 3.insert a node after a given node
 4. delete
 5. display
 6. exit
Enter your choice:
44
       5
               33
                      22
1. Insert to the left in the beginning
2.insert a node before a given node
3.insert a node after a given node
4. delete
5. display
6. exit
Enter your choice:
Enter the element in the list
33
Enter the new node data
1. Insert to the left in the beginning
2.insert a node before a given node
3.insert a node after a given node
4. delete
 5. display
 6. exit
Enter your choice:
                 33
                         6
1. Insert to the left in the beginning
 2.insert a node before a given node
3.insert a node after a given node
```

1. Insert to the left in the beginning

```
1. Insert to the left in the beginning
2.insert a node before a given node
3.insert a node after a given node
4. delete
5. display
6. exit
Enter your choice:
Enter the element to be deleted
22
1. Insert to the left in the beginning
2.insert a node before a given node
3.insert a node after a given node
4. delete
5. display
6. exit
Enter your choice:
44
     5 33
                       6
```

```
1. Insert to the left in the beginning
2.insert a node before a given node
3.insert a node after a given node
4. delete
5. display
6. exit

Enter your choice:
6

...Program finished with exit code 0

Press ENTER to exit console.
```