



CodeBlocks 20.03

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```
43 }
44 newNode->prev = temp->prev;
45 newNode->next = temp;
46 temp->prev->next = newNode;
47 temp->prev = newNode;
48 }
49 void deleteValue(struct Node* head, int value) {
50     struct Node* temp = head;
51     while (temp != NULL && temp->data != value)
52         temp = temp->next;
53     if (temp == NULL) {
54         printf("Value %d not found in the list!\n", value);
55         return;
56     }
57     if (temp->prev != NULL)
58         temp->prev->next = temp->next;
59     else
60         head = temp->next;
61     if (temp->next != NULL)
62         temp->next->prev = temp->prev;
63     free(temp);
64     printf("Node with value %d deleted.\n", value);
65 }
66 void display(struct Node* head) {
67     struct Node* temp = head;
68     printf("List: ");
69     while (temp != NULL) {
70         printf("%d <-> ", temp->data);
71         temp = temp->next;
72     }
73     printf("NULL\n");
74 }
75 int main() {
76     struct Node* head = NULL;
77     int choice, value, newValue;
78     while (1) {
79         printf("\n--- Doubly Linked List Menu ---\n");
80         printf("1. Insert at End\n");
81         printf("2. Insert to the Left of Node\n");
82         printf("3. Delete Node by Value\n");
83         printf("4. Display List\n");
84         printf("5. Exit\n");
85         printf("Enter choice: ");
86         scanf("%d", &choice);
87         switch (choice) {
88             case 1:
89                 printf("Enter value to insert: ");
90                 scanf("%d", &value);
91                 // Insert at End logic
92             case 2:
93                 // Insert to the Left of Node logic
94             case 3:
95                 deleteValue(head, value);
96             case 4:
97                 display(head);
98             case 5:
99                 return 0;
100         }
101     }
102 }
```

Activate Windows
Go to Settings to activate Windows.

C:\Users\Admin\Desktop\dll.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 60, Col 29, Pos 1655 Insert Modified Read/Write default ENG 11:04:41 AM 24-11-2025

CodeBlocks 20.03

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```
75  
76 int main() {  
77     struct Node* head = NULL;  
78     int choice, value, newValue;  
79  
80     while (1) {  
81         printf("\n--- Doubly Linked List Menu ---\n");  
82         printf("1. Insert at End\n");  
83         printf("2. Insert to the Left of Node\n");  
84         printf("3. Delete Node by Value\n");  
85         printf("4. Display List\n");  
86         printf("5. Exit\n");  
87         printf("Enter choice: ");  
88         scanf("%d", &choice);  
89  
90         switch (choice) {  
91             case 1:  
92                 printf("Enter value to insert: ");  
93                 scanf("%d", &value);  
94                 insertEnd(&head, value);  
95                 break;  
96  
97             case 2:  
98                 printf("Enter value of node to insert left of: ");  
99                 scanf("%d", &value);  
100                printf("Enter new value: ");  
101                scanf("%d", &newValue);  
102                insertLeft(&head, value, newValue);  
103                break;  
104  
105             case 3:  
106                 printf("Enter value to delete: ");  
107                 scanf("%d", &value);  
108                 deleteValue(&head, value);  
109                 break;  
110  
111             case 4:  
112                 display(head);  
113                 break;  
114  
115             case 5:  
116                 exit(0);  
117  
118             default:  
119                 printf("Invalid choice!\n");  
120         }  
121     }  
122  
123     return 0;  
124 }  
125
```

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C:\Users\Admin\Desktop\dllc C/C++ Windows (CR+LF) WINDOWS-1252 Line 60, Col 29, Pos 1655 Insert Modified Read/Write default ENG 11.05.12 AM IN 24-11-2025

C:\Users\Admin\Desktop\dll.exe

```
--- Doubly Linked List Menu ---
1. Insert at End
2. Insert to the Left of Node
3. Delete Node by Value
4. Display List
5. Exit
Enter choice: 1
Enter value to insert: 10

--- Doubly Linked List Menu ---
1. Insert at End
2. Insert to the Left of Node
3. Delete Node by Value
4. Display List
5. Exit
Enter choice: 1
Enter value to insert: 20

--- Doubly Linked List Menu ---
1. Insert at End
2. Insert to the Left of Node
3. Delete Node by Value
4. Display List
5. Exit
Enter choice: 1
Enter value to insert: 30

--- Doubly Linked List Menu ---
1. Insert at End
2. Insert to the Left of Node
3. Delete Node by Value
4. Display List
5. Exit
Enter choice: 2
Enter value of node to insert left of: 20
Enter new value: 50

--- Doubly Linked List Menu ---
1. Insert at End
2. Insert to the Left of Node
3. Delete Node by Value
4. Display List
5. Exit
Enter choice: 4
List: 10 <-> 50 <-> 20 <-> 30 <-> NULL

--- Doubly Linked List Menu ---
1. Insert at End
2. Insert to the Left of Node
3. Delete Node by Value
4. Display List
5. Exit
Enter choice: 3
Enter value to delete: 20
Node with value 20 deleted.

--- Doubly Linked List Menu ---
1. Insert at End
2. Insert to the Left of Node
3. Delete Node by Value
4. Display List
5. Exit
```

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```
C:\Users\Admin\Desktop\dll.exe
5. Exit
Enter choice: 1
Enter value to insert: 30

--- Doubly Linked List Menu ---
1. Insert at End
2. Insert to the Left of Node
3. Delete Node by Value
4. Display List
5. Exit
Enter choice: 2
Enter value of node to insert left of: 20
Enter new value: 50

--- Doubly Linked List Menu ---
1. Insert at End
2. Insert to the Left of Node
3. Delete Node by Value
4. Display List
5. Exit
Enter choice: 4
List: 10 <-> 50 <-> 20 <-> 30 <-> NULL

--- Doubly Linked List Menu ---
1. Insert at End
2. Insert to the Left of Node
3. Delete Node by Value
4. Display List
5. Exit
Enter choice: 3
Enter value to delete: 20
Node with value 20 deleted.

--- Doubly Linked List Menu ---
1. Insert at End
2. Insert to the Left of Node
3. Delete Node by Value
4. Display List
5. Exit
Enter choice: 4
List: 10 <-> 50 <-> 30 <-> NULL

--- Doubly Linked List Menu ---
1. Insert at End
2. Insert to the Left of Node
3. Delete Node by Value
4. Display List
5. Exit
Enter choice: 5

Process returned 0 (0x0)   execution time : 81.922 s
Press any key to continue.
-

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```