

```
D:\1BF24CS107\lab4.exe
```

---- Singly Linked List Menu ----
1. Insert at beginning
2. Insert at end
3. Insert at any position
4. Display
5. Exit
Enter your choice: 3
Enter value: 77
Enter position: 4

---- Singly Linked List Menu ----
1. Insert at beginning
2. Insert at end
3. Insert at any position
4. Display
5. Exit
Enter your choice: 4
SLL: 6 -> 5 -> 20 -> 77 -> 30 -> NULL

---- Singly Linked List Menu ----
1. Insert at beginning
2. Insert at end
3. Insert at any position
4. Display
5. Exit
Enter your choice: 5

Process returned 0 (0x0) execution time : 62.955 s
Press any key to continue.

High UV
Now



ENG
US 11:57:03
03-11-2025

```
D:\1BF24CS107\lab4.exe
```

---- Singly Linked List Menu ----
1. Insert at beginning
2. Insert at end
3. Insert at any position
4. Display
5. Exit
Enter your choice:
1
Enter value: 5
---- Singly Linked List Menu ----
1. Insert at beginning
2. Insert at end
3. Insert at any position
4. Display
5. Exit
Enter your choice: 1
Enter value: 6
---- Singly Linked List Menu ----
1. Insert at beginning
2. Insert at end
3. Insert at any position
4. Display
5. Exit
Enter your choice: 2
Enter value: 20
---- Singly Linked List Menu ----
1. Insert at beginning
2. Insert at end
3. Insert at any position
4. Display
5. Exit
Enter your choice: 2
Enter value: 30
---- Singly Linked List Menu ----
1. Insert at beginning
2. Insert at end
3. Insert at any position
4. Display
5. Exit
Enter your choice: 3
Enter value: 77
Enter position: 4
---- Singly Linked List Menu ----
1. Insert at beginning
2. Insert at end



ENG
US 11:56:34
03-11-2025

lab4.c - Code::Blocks 20.03

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<global>

Start here lab4.c

```
81     scanf("%d", &choice);
82
83     switch (choice) {
84     case 1:
85         printf("Enter value: ");
86         scanf("%d", &value);
87         insertAtBegin(value);
88         break;
89
90     case 2:
91         printf("Enter value: ");
92         scanf("%d", &value);
93         insertAtEnd(value);
94         break;
95
96     case 3:
97         printf("Enter value: ");
98         scanf("%d", &value);
99         printf("Enter position: ");
100        scanf("%d", &pos);
101        insertAtPosition(value, pos);
102        break;
103
104    case 4:
105        display();
106        break;
107
108    case 5:
109        exit(0);
110
111    default:
112        printf("Invalid choice! Try again.\n");
113    }
114
115    return 0;
116
117 }
```

Logs & others

Code::Blocks Search results Cccc Build log Build messages CppCheck/Vera++ CppCheck/Vera++ messages Cscope Debugger DoxyBlocks Fortran info Closed files list Thread search

File	Line	Message
		== Build file: "no target" in "no project" (compiler: unknown) == == Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ==



lab4.c - Code::Blocks 20.03

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<global>

Start here x lab4.c x

```
73 while (1) {
74     printf("\n---- Singly Linked List Menu ----\n");
75     printf("1. Insert at beginning\n");
76     printf("2. Insert at end\n");
77     printf("3. Insert at any position\n");
78     printf("4. Display\n");
79     printf("5. Exit\n");
80     printf("Enter your choice: ");
81     scanf("%d", &choice);
82
83     switch (choice) {
84     case 1:
85         printf("Enter value: ");
86         scanf("%d", &value);
87         insertAtBegin(value);
88         break;
89
90     case 2:
91         printf("Enter value: ");
92         scanf("%d", &value);
93         insertAtEnd(value);
94         break;
95
96     case 3:
97         printf("Enter value: ");
98         scanf("%d", &value);
99         printf("Enter position: ");
100        scanf("%d", &pos);
101        insertAtPosition(value, pos);
102        break;
103
104    case 4:
105        display();
106        break;
107
108    case 5:
109        exit(0);
```

Logs & others

Code::Blocks x Search results x Cccc x Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cscope x Debugger x DoxyBlocks x Fortran info x Closed files list x Thread search x

File	Line	Message
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lab4.c - Code::Blocks 20.03

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Start here x lab4.c x

```
37 }
38
39 void insertAtPosition(int value, int pos) {
40     struct node *newNode = createNode(value);
41
42     if (pos == 1) {
43         newNode->next = head;
44         head = newNode;
45         return;
46     }
47
48     struct node *temp = head;
49     for (int i = 1; i < pos - 1 && temp != NULL; i++)
50         temp = temp->next;
51
52     if (temp == NULL) {
53         printf("Position out of range\n");
54         return;
55     }
56
57     newNode->next = temp->next;
58     temp->next = newNode;
59 }
60 void display() {
61     struct node *temp = head;
62     printf("SLL: ");
63     while (temp != NULL) {
64         printf("%d -> ", temp->data);
65         temp = temp->next;
66     }
67     printf("NULL\n");
68 }
69
70 int main() {
71     int choice, value, pos;
72
73     while (1) {
```

Logs & others

Code::Blocks x Search results x Cccc x Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cscope x Debugger x DoxyBlocks x Fortran info x Closed files list x Thread search x

File	Line	Message
D:\1BF24CS107\lab4.c		== Build file: "no target" in "no project" (compiler: unknown) === == Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===



lab4.c - Code::Blocks 20.03

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Start here x lab4.c x

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 struct node {
5     int data;
6     struct node *next;
7 };
8
9 struct node *head = NULL;
10
11 struct node* createNode(int value) {
12     struct node *newNode = (struct node*)malloc(sizeof(struct node));
13     newNode->data = value;
14     newNode->next = NULL;
15     return newNode;
16 }
17
18 void insertAtBegin(int value) {
19     struct node *newNode = createNode(value);
20     newNode->next = head;
21     head = newNode;
22 }
23
24 void insertAtEnd(int value) {
25     struct node *newNode = createNode(value);
26
27     if (head == NULL) {
28         head = newNode;
29         return;
30     }
31
32     struct node *temp = head;
33     while (temp->next != NULL)
34         temp = temp->next;
35
36     temp->next = newNode;
37 }
```

Logs & others

Code::Blocks x Search results x Cccc x Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cscope x Debugger x DoxyBlocks x Fortran info x Closed files list x Thread search x

File	Line	Message
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