

Chapter 01 Definition and History of Computer Note down.txt

Practice.cpp X

▶ ▾ □ ...

Year 02 > Data Structure & Programming > C++ > Course > Chapter 09 Linked Lists > Practice.cpp > ...

```

1  #include<iostream>
2  using namespace std;
3  struct element{
4      int data;
5      element *next;
6  };
7  struct list{
8      int n;
9      element *head;
10     element *tail;
11 };
12 list *create_empty_list(){
13     list *l1;
14     l1 = new list;
15     l1 -> head = NULL;
16     l1 -> tail = NULL;
17     l1 -> n = 0;
18     return l1;
19 }
20 void insert_to_begin(list *ls, int new_data){
21     element *e;
22     e = new element;
23     e -> data = new_data;
24     if(ls->n==0){
25         ls -> head = e;
26         ls -> tail = e;
27         e -> next = NULL;
28     }
29     else{

```





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```
29     else{
30         e -> next = ls -> head;
31         ls -> head = e;
32     }
33     ls -> n = ls -> n+1;
34 }
35 void display_list(list *ls){
36     element *t;
37     t = ls -> head;
38     while(t!=NULL){
39         cout<<t -> data<<" ";
40         t=t->next;
41     }
42 }
43 int main(){
44     list *l1;
45     l1=create_empty_list();
46     insert_to_begin(l1,2);
47     insert_to_begin(l1,5);
48     insert_to_begin(l1,7);
49     display_list(l1);
50 }
51
52
53
54
55
56
57
```

```

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35 void display_list(list *ls){
36     element *t;
37     t = ls -> head;
38     while(t!=NULL){
39         cout<<t -> data<<" ";
40         t=t->next;
41     }
42 }
43 int main(){
44     list *l1;
45     l1=create_empty_list();
46     insert_to_begin(l1,2);
47     insert_to_begin(l1,5);
48     insert_to_begin(l1,7);
49     display_list(l1);
50 }
51
52

```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

Windows PowerShell
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Warning: PowerShell detected that you might be using a screen reader and has disabled PSReadLine for compatibility purposes. If you want to re-enable it, run 'Import-Module PSReadLine'.

```

PS D:\Year 02> cd "d:\Year 02\Data Structure & Programming\C++\Course\Chapter 09 Linked Lists\" ; if ($?) { g++ Practice.cpp -o Practice } ; if ($?) { .\Practice }
7 5 2
PS D:\Year 02\Data Structure & Programming\C++\Course\Chapter 09 Linked Lists>

```

+ v ^ x

C/C++: ... ✓

cppdbg: Pra...

Code

```

Chapter 01 Definition and History of Computer Note down.txt Practice.cpp X
Year 02 > Data Structure & Programming > C++ > Course > Chapter 09 Linked Lists > Practice.cpp > main()
58     insert_to_begin(l1,2);
59     insert_to_begin(l1,5);
60     insert_to_begin(l1,7);
61     display_list(l1);
62
63     insert_to_begin(l1,-1);
64     insert_to_begin(l1,0);
65     insert_to_begin(l1,5);
66     cout<<endl;
67     display_list(l1);
68
69     delete_begin(l1);
70     delete_begin(l1);
71     cout<<endl;
72     display_list(l1);
73
74     return 0;
75

```

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```

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7 5 2
5 0 -1 7 5 2
-1 7 5 2

```