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Shakil Hossain - 2023.cpp - Code::Blocks 17.12
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Shakil-2023.cpp x Shakil Hossain - 2023.cpp x

1 // Md. Shakil Hossain
2 // Roll - 2023
3 // Lab Test 1
4 // Write a c++ Program to reverse a linked list?
5
6 #include<bits/stdc++.h>
7 using namespace std;
8 struct node
9 {
10     int data;
11     struct node* link;
12 };
13 struct node* head;
14
15 void print()
16 {
17     struct node* temp;
18     temp = head;
19     while(temp != NULL)
20     {
21         cout<<temp->data<<endl;
22         temp = temp ->link;
23     }
24 }
25
```

reverse

4  
3  
2  
1

Process returned 0 (0x0) execution time : 0.127 s  
Press any key to continue.

```
24 }
25 void rev()
26 {
27     struct node* current = head;
28     struct node* pre=NULL;
29     struct node* next=NULL;
30     while(current !=NULL)
31     {
32         next=current->link;
33         current->link = pre;
34         pre= current;
35         current = next;
36     }
37     head=pre;
38 }
39 void insert(int value)
40 {
41     struct node* temp= (struct node*)malloc(sizeof(struct node));
42     temp ->data = value;
43     temp ->link = NULL;
44     if(head==NULL)
45     {
46         head = temp;
47     }
48     else
49     {
50         struct node* t;
51         t=head;
52         while(t -> link != NULL)
53         {
54             t=t->link;
55         }
56         t->link = temp;
57     }
58 }
```

```
Start here  X  Shakil-2023.cpp  X  Shakil Hossain - 2023.cpp  X
41      struct node* temp= (struct node*)malloc(sizeof(struct node));
42      temp ->data = value;
43      temp ->link = NULL;
44      if(head==NULL)
45      {
46          head = temp;
47      }
48      else
49      {
50          struct node* t;
51          t=head;
52          while(t -> link != NULL)
53          {
54              t=t->link;
55          }
56          t->link = temp;
57      }
58  }
59  int main()
60  {
61      head=NULL;
62      insert(1);
63      insert(2);
64      insert(3);
65      insert(4);
66      print();
67      rev();
68      cout<<endl<<"reverse"<<endl;
69      print();
70      return 0;
71  }
72
```