

```

1  #include <stdio.h>
2  #include <stdlib.h>
3
4  struct node{
5      int data;
6      struct node* next;
7  };
8
9  int main(){
10
11     struct node* start = malloc(sizeof(struct node));
12
13     start->data = 10;
14     start->next = NULL;
15
16     struct node* ptr = malloc(sizeof(struct node));
17
18     ptr->data = 20;
19     ptr->next = NULL;
20     start->next = ptr;
21
22     ptr = malloc(sizeof(struct node));
23
24     ptr->data = 30;
25     ptr->next = NULL;
26     start->next->next = ptr;
27
28     struct node* temp = start;
29
30     printf("Original Linked List: \n");
31
32     while(temp){
33         printf("%d\n",temp->data);
34         temp = temp->next;
35     }
36
37     //to reverse
38
39     struct node* before = NULL;
40     struct node* after = NULL;
41
42     while(start!=NULL){
43         after = start->next;
44         start->next = before;
45         before = start;
46         start = after;
47     }
48
49     start = before;
50
51     struct node* temp2 = start;
52
53     printf("Reversed Linked List: \n");
54
55     while(temp2){
56         printf("%d\n",temp2->data);
57         temp2 = temp2->next;
58     }
59
60
61     return 0;
62
63 }

```

```
KIIT0001@Utkarsh MINGW64 /d/Learning C 3rd Sem/assignments/assignment_aug16
• $ ./linked
Original Linked List:
10
20
30
Reversed Linked List:
30
20
10
```