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```
8 ****
9 #include<stdio.h>
10 #include<stdlib.h>
11 struct node
12 {
13     int data;
14     struct node *link;
15 };
16 struct node *head= NULL;
17 struct node *newnode;
18 struct node* createnode(int data)
19 {
20     struct node *temp=(struct node*)(malloc(sizeof(struct node)));
21     temp->data=data;
22     temp->link=NULL;
23     return temp;
24 }
25 void insertnode(int data)
26 {
27     if(head==NULL)
28     {
29         head=createnode(data);
30     }
31     else
32     {
33         struct node*temp=head;
34         while(temp->link!=NULL)
35     {
```

input      stdout      stderr

**OnlineGDB beta**  
online compiler and debugger for c/c++

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Language C

```
35+
36 temp=temp->link;
37 }
38 newnode=createnode(data);
39 temp->link=newnode;
40 }
41 }
42 struct node* search(int data)
43 {
44 struct node *temp=head;
45 while(temp!=NULL)
46 {
47 if(temp->data==data)
48 {
49 return temp;
50 }
51 temp=temp->link;
52 }
53 return NULL;
54 }
55 void printlinkedlist()
56 {
57 struct node *temp=head;
58 int i=1;
59 while(temp!=NULL)
60 {
61 printf("\n Node %d : %d",i,temp->data);
62 temp=temp->link;
63 }
```

input      stdout      stderr

```
52     temp->link,
53     i++;
54   }
55 }
56 int main()
57 {
58   int n,i,data,x;
59   printf("\n Enter the number of nodes : ");
60   scanf("%d",&n);
61   i=0;
62   while(i<n)
63   {
64     printf("\n Enter the %d node : ",i+1);
65     scanf("%d",&data);
66     insertnode(data);
67     i++;
68   }
69   printlinkedlist();
70   return 0;
71 }
```

input

stdout

stderr

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Language C

```
34 }
35 void printlinkedlist()
36 {
37     struct node *temp=head;
```

input

```
Enter the number of nodes : 5
Enter the 1 node : 1
Enter the 2 node : 2
Enter the 3 node : 10
Enter the 4 node : 15
Enter the 5 node : 23

Node 1 : 1
Node 2 : 2
Node 3 : 10
Node 4 : 15
Node 5 : 23

...Program finished with exit code 0
Press ENTER to exit console.
```