

DEV D:\academics\3-1 sem\AC\Min_Max_linkedlist.c - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug double_circular.c even_doublelinkedlist.c prime_double_ll.c Min_Max_linkedlist.c

MIN MAX IN LINKED LIST

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 struct node{
4     int data;
5     struct node *next;
6 };
7 struct node *head, *p = NULL;
8 void addNode(int data) {
9     struct node *newNode = (struct node*)malloc(sizeof(struct node));
10    newNode->data = data;
11    newNode->next = NULL;
12
13    if(head == NULL) {
14        head = newNode;
15        p = newNode;
16    }
17    else {
18        p->next = newNode;
19        p = newNode;
20    }
21 }
22
23 void minNode() {
```

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Compiler Resources Compile Log Debug Find Results

Line: 1 Col: 1 Sel: 0 Lines: 76 Length: 1698 Insert Done parsing in 0.016 seconds

9:09 PM 9/22/2020

D:\academics\3-1 sem\AC\Min_Max_linkedlist.c - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug double_circular.c even_doublelinkedlist.c prime_double_ll.c Min_Max_linkedlist.c

```
24 struct node *current = head;
25 int min;
26
27 if(head == NULL) {
28     printf("List is empty \n");
29 }
30 else {
31     min = head->data;
32     while(current != NULL){
33         if(min > current->data) {
34             min = current->data;
35         }
36         current = current->next;
37     }
38     printf("Minimum value node in the list: %d\n", min);
39 }
40 }
41 void maxNode() {
42     struct node *current = head;
43     int max;
44
45     if(head == NULL) {
46         printf("List is empty \n");
```

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Compiler Resources Compile Log Debug Find Results

Line: 45 Col: 4 Sel: 0 Lines: 76 Length: 1698 Insert Done parsing in 0.016 seconds

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D:\academics\3-1 sem\AC\Min_Max_linkedlist.c - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug double_circular.c even_doublelinkedlist.c prime_double_ll.c Min_Max_linkedlist.c

```
47 }
48 else {
49     max = head->data;
50
51     while(current != NULL){
52         if(max < current->data) {
53             max = current->data;
54         }
55         current = current->next;
56     }
57     printf("Maximum value node in the list: %d\n", max);
58 }
59 }
60
61 int main()
62 {
63     int x;
64     printf("Enter elements into linked list ending with 0: ");
65     scanf("%d",&x);
66     while(x!=0)
67     {
68         addNode(x);
69         scanf("%d",&x);
```

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Compiler Resources Compile Log Debug Find Results

Line: 68 Col: 4 Sel: 0 Lines: 76 Length: 1698 Insert Done parsing in 0.016 seconds

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D:\academics\3-1 sem\AC\Min_Max_linkedlist.c - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug double_circular.c even_doublelinkedlist.c prime_double_ll.c Min_Max_linkedlist.c

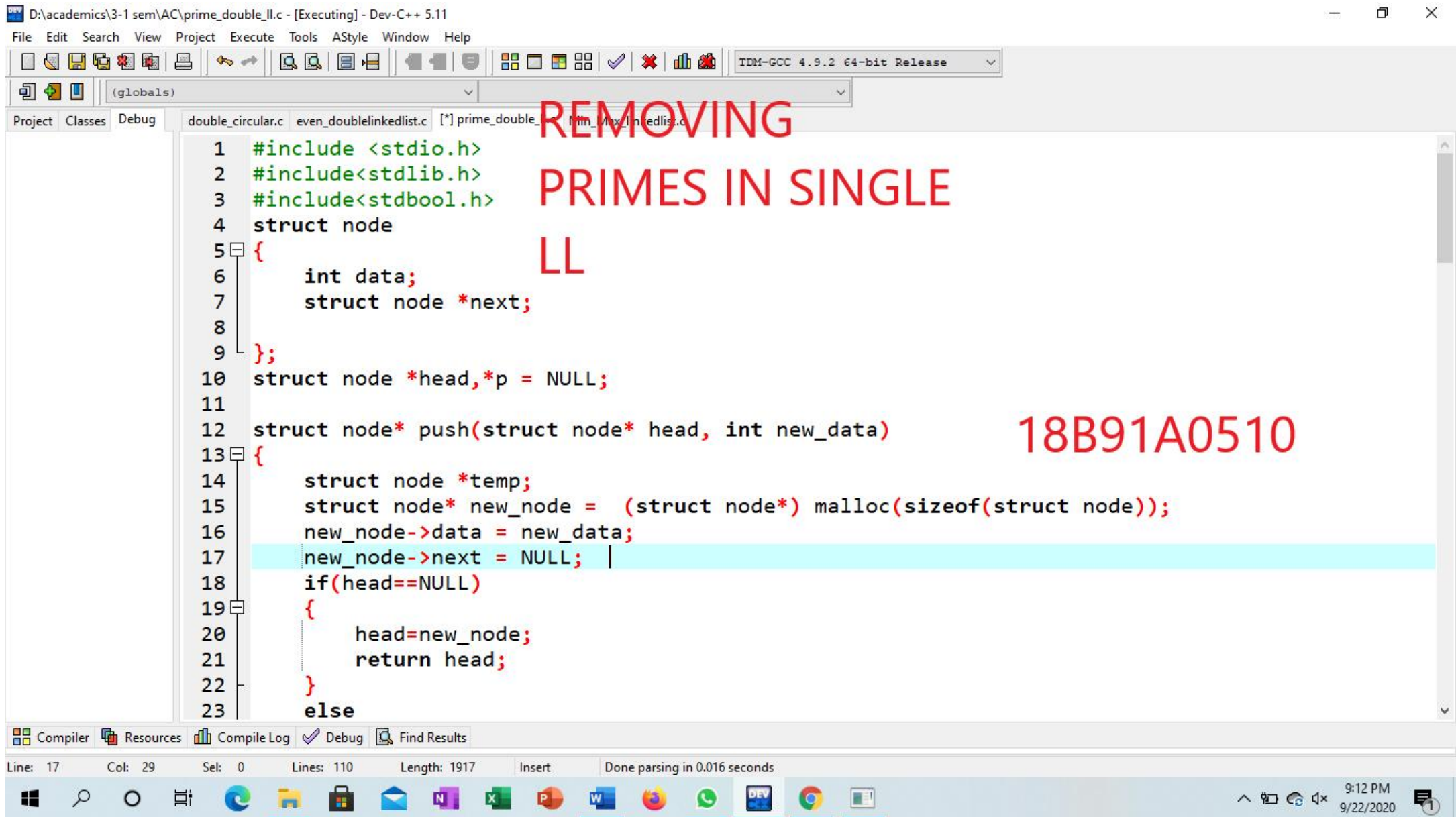
```
55         current = current->next;
56     }
57     printf("Maximum value node in the list: %d\n", max);
58 }
59 }
60
61 int main()
62 {
63     int x;
64     printf("Enter elements into linked list ending with 0: ");
65     scanf("%d",&x);
66     while(x!=0)
67     {
68         addNode(x);
69         scanf("%d",&x);
70     }
71     minNode();
72     maxNode();
73
74     return 0;
75 }
76
```

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Compiler Resources Compile Log Debug Find Results

Line: 76 Col: 1 Sel: 0 Lines: 76 Length: 1698 Insert Done parsing in 0.016 seconds

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D:\academics\3-1 sem\AC\prime_double_ll.c - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug double_circular.c even_doublelinkedlist.c [*] prime_double_ll.c Min_Max_linkedlist.c

```
24 {
25     temp=head;
26     while(temp->next!=NULL)
27     {
28         temp=temp->next;
29     }
30     temp->next=new_node;
31     return head;
32 }
33 }
34
35 void deleteNode(struct node* head, struct node *del)
36 {
37     struct node *temp=head ;
38     if (head== NULL || del == NULL)
39         return;
40
41     if (head == del)
42         head = del->next;
43
44     while (temp->next != del) {
45         temp = temp->next;
46     }
```

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Compiler Resources Compile Log Debug Find Results

Line: 45 Col: 23 Sel: 0 Lines: 110 Length: 1917 Insert Done parsing in 0.016 seconds



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D:\academics\3-1 sem\AC\prime_double_ll.c - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug double_circular.c even_doublelinkedlist.c [*] prime_double_ll.c Min_Max_linkedlist.c

```
47     temp->next = del->next;
48     free(del);
49
50     return;
51 }
52
53 int isPrime(int a);
54 int primeNode(struct node *head)
55 {
56     struct node *ptr = head,*next;
57     // int a,t,s;
58     while (ptr != NULL) {
59         next = ptr->next;
60         // if true, delete node 'ptr'
61         if (isPrime(ptr->data))
62             deleteNode(head,ptr);
63         ptr = next;
64     }
65 }
66 int isPrime(int a)
67 {
68     int c=1,i;
69     for(i=1;i<=a/2;i++)
```

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Compiler Resources Compile Log Debug Find Results

Line: 68 Col: 11 Sel: 0 Lines: 110 Length: 1917 Insert Done parsing in 0.016 seconds

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D:\academics\3-1 sem\AC\prime_double_ll.c - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug double_circular.c even_doublelinkedlist.c [*] prime_double_ll.c Min_Max_linkedlist.c

```
69 for(i=1;i<=a/2;i++)
70 {
71     if(a%i==0)
72     {
73         c++;
74     }
75 }
76 if(c==2)
77 {
78     return true;
79 }
80 else{
81     return false;
82 }
83 }
84
85 void printList(struct node *head)
86 {
87     struct node *temp=head;
88     while (temp != NULL)
89     {
90         printf("%d->", temp->data);
91     }
```

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Compiler Resources Compile Log Debug Find Results

Line: 90 Col: 23 Sel: 0 Lines: 110 Length: 1917 Insert Done parsing in 0.016 seconds

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D:\academics\3-1 sem\AC\prime_double_ll.c - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug double_circular.c even_doublelinkedlist.c [*] prime_double_ll.c Min_Max_linkedlist.c

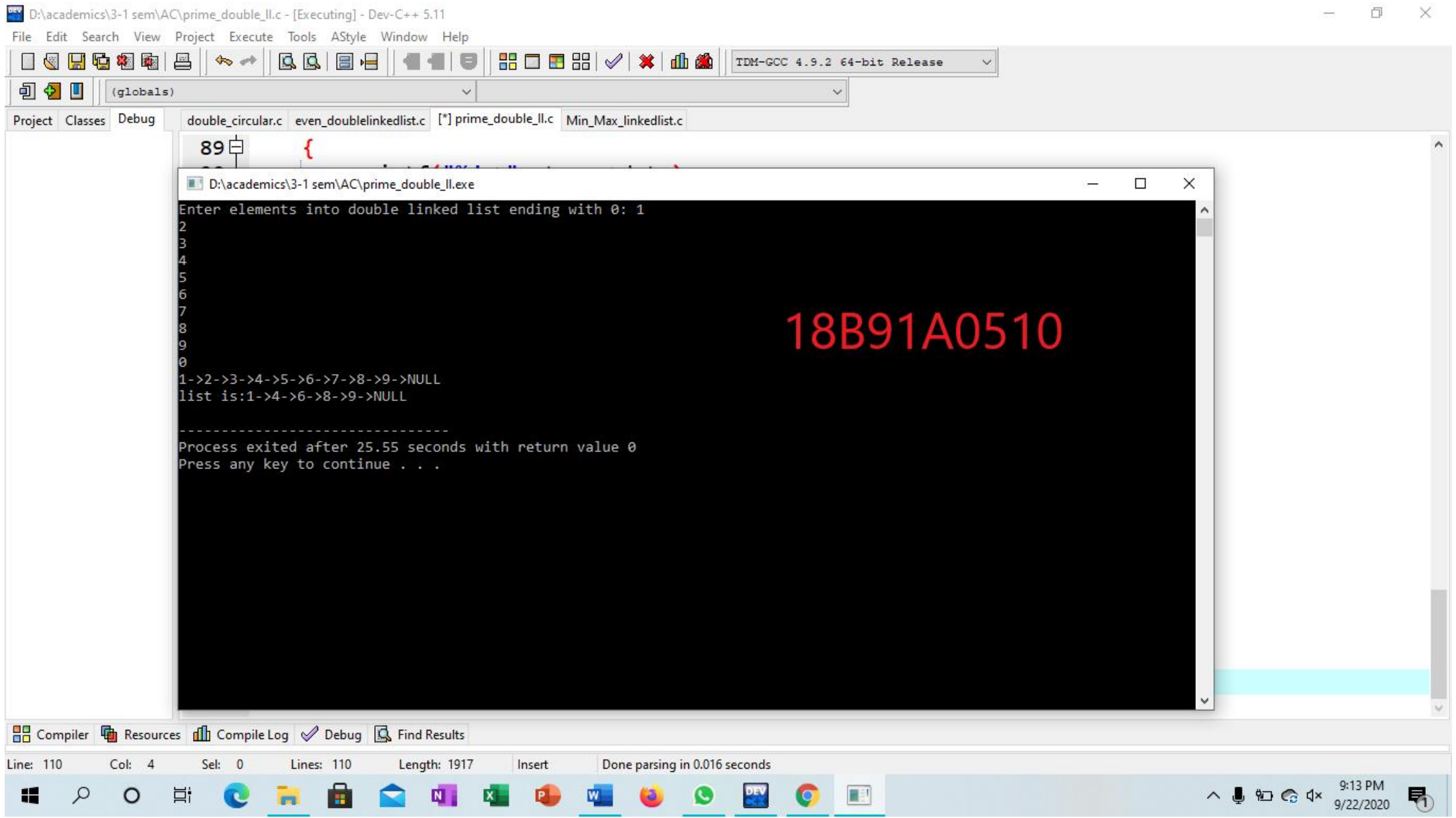
```
89 {
90     printf("%d->", temp->data);
91     temp = temp->next;
92 }
93 printf("NULL\n");
94 }
95 int main()
96 {
97     int x;
98     printf("Enter elements into double linked list ending with 0: ");
99     scanf("%d",&x);
100     while(x!=0)
101     {
102         head=push(head,x);
103         scanf("%d",&x);
104     }
105     printList(head);
106     primeNode(head);
107     printf("list is:");
108     printList(head);
109     return 0;
110 }
```

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Compiler Resources Compile Log Debug Find Results

Line: 110 Col: 4 Sel: 0 Lines: 110 Length: 1917 Insert Done parsing in 0.016 seconds

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```

1  #include <stdio.h>
2  #include<stdlib.h>
3  struct node
4  {
5      int data;
6      struct node *next;
7      struct node *prev;
8  };
9  struct node *head, *p = NULL;
10
11 struct node* addNode(struct node* head,int x)
12 {
13
14     struct node *temp,*p;
15     temp=(struct node*)malloc(sizeof(struct node));
16     temp->data=x;
17
18     if(head==NULL)
19     {
20
21         temp->next=NULL;
22         temp->prev=NULL;
23         head=temp;

```

EVEN NODES IN
DOUBLE LL

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```
24 }
25 else
26 {
27     p=head;
28     while(p->next!=NULL)
29     {
30         p=p->next;
31     }
32     p->next=temp;
33     temp->prev=p;
34     temp->next=NULL;
35 }
36 return head;
37 }
38
39 void evenNode()
40 {
41     struct node *current = head;
42     int s;
43     if(head == NULL) {
44         printf("List is empty \n");
45     }
46     else
```

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D:\academics\2-1 sem\ds lab programms\even_doublelinkedlist.c - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug double_circular.c even_doublelinkedlist.c prime_double_ll.c Min_Max_linkedlist.c

```
47 {
48
49     while(current != NULL)
50     {
51         s = current->data;
52
53         if(s%2==0)
54         {
55
56             printf("%d\n",s);
57         }
58         current = current->next;
59
60     }
61
62 }
63
64 }
65
66 int main()
67 {
68     int x;
69     printf("Enter elements into double linked list ending with 0: ");
```

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Compiler Resources Compile Log Debug Find Results

Line: 67 Col: 4 Sel: 0 Lines: 80 Length: 1300 Insert Done parsing in 0.016 seconds

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```
59
60     }
61
62     }
63
64 }
65
66 int main()
67 {
68     int x;
69     printf("Enter elements into double linked list ending with 0: ");
70     scanf("%d",&x);
71     while(x!=0)
72     {
73         head=addNode(head,x);
74         scanf("%d",&x);
75     }
76     printf("Even nodes in the given linked list are: ");
77     evenNode();
78     return 0;
79 }
80
```

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D:\academics\2-1 sem\ds lab programmes\even_doublelinkedlist.c - [Executing] - Dev-C++ 5.11

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```
D:\academics\2-1 sem\ds lab programmes\even_doublelinkedlist.exe
Enter elements into double linked list ending with 0: 2
5
7
9
10
52
0
Even nodes in the given linked list are: 2
10
52
-----
Process exited after 35.99 seconds with return value 0
Press any key to continue . . .
```

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```
77 evenNode();
78 return 0;
79 }
80
```

Compiler Resources Compile Log Debug Find Results

Line: 80 Col: 1 Sel: 0 Lines: 80 Length: 1300 Insert Done parsing in 0.016 seconds



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D:\academics\2-1 sem\ds lab programms\double_circular.c - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug double_circular.c even_doublelinkedlist.c prime_double_ll.c Min_Max_linkedlist.c Double_linkedlist.c

```
1  #include<stdio.h>
2  #include<stdlib.h>
3
4  struct node
5  {
6      int data;
7      struct node* prev;
8      struct node* next;
9  };
10 typedef struct node* npt;
11 npt root=NULL;
12
13
14 npt insert_beg(npt root,int x)
15 {
16     npt ptr,temp;
17     ptr = (npt)malloc(sizeof(struct node));
18     if(ptr == NULL)
19     {
20         printf("\nOVERFLOW");
21     }
22     else
23     {
```

DOUBLE
CIRCULAR LL

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Compiler Resources Compile Log Debug Find Results

Line: 286 Col: 31 Sel: 0 Lines: 296 Length: 4692 Insert Done parsing in 0.016 seconds



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D:\academics\2-1 sem\ds lab programmes\double_circular.c - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug double_circular.c even_doublelinkedlist.c prime_double_ll.c Min_Max_linkedlist.c Double_linkedlist.c

```
24
25     ptr->data=x;
26     if(root==NULL)
27     {
28         root = ptr;
29         ptr -> next = root;
30         ptr -> prev = root;
31     }
32     else
33     {
34         temp = root;
35         while(temp -> next != root)
36         {
37             temp = temp -> next;
38         }
39         temp -> next = ptr;
40         ptr -> prev = temp;
41         root -> prev = ptr;
42         ptr -> next = root;
43         root = ptr;
44     }
45     return root;
46 }
```

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Compiler Resources Compile Log Debug Find Results

Line: 45 Col: 7 Sel: 0 Lines: 296 Length: 4692 Insert Done parsing in 0.016 seconds



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D:\academics\2-1 sem\ds lab programmes\double_circular.c - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug double_circular.c even_doublelinkedlist.c prime_double_ll.c Min_Max_linkedlist.c Double_linkedlist.c

```
47  
48 }  
49  
50 npt insert_end(npt root,int x)  
51 {  
52     npt temp,p;  
53     temp=(npt)malloc(sizeof(struct node));  
54     temp->data=x;  
55     if(root==NULL)  
56     {  
57         temp->next=root;  
58         temp->prev=root;  
59         root=temp;  
60     }  
61     else  
62     {  
63         p=root;  
64         while(p->next!=root)  
65         {  
66             p=p->next;  
67         }  
68     }  
69     temp->next=root;
```

18B91A0510

Compiler Resources Compile Log Debug Find Results

Line: 68 Col: 5 Sel: 0 Lines: 296 Length: 4692 Insert Done parsing in 0.016 seconds

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```

69         temp->next=root;
70         root->prev=temp;
71         temp->prev=p;
72         p->next=temp;
73
74     }
75     return root;
76 }
77
78 npt insert_middle(npt root,int x,int pos)
79 {
80     npt temp,p;
81     int c=1;
82     p=(npt)malloc(sizeof(struct node));
83     p->data=x;
84     if(pos>count(root))
85     {
86         printf("Insertion not possible\n");
87         return root;
88     }
89     else if(pos==1)
90     {
91         insert_beg(root,x);

```

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D:\academics\2-1 sem\ds lab programmes\double_circular.c - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug double_circular.c even_doublelinkedlist.c prime_double_ll.c Min_Max_linkedlist.c Double_linkedlist.c

```
92         return ;
93     }
94     temp=(npt)malloc(sizeof(struct node));
95     temp->data=x;
96     p=root;
97     while(p->next!=NULL && c<pos-1)
98     {
99         c++;
100        p=p->next;
101    }
102    temp->next=p->next;
103    p->next->prev=temp;
104    temp->prev=p;
105    p->next=temp;
106    return root;
107 }
108
109
110 int count(npt root)
111 {
112     npt temp=root;
113     int c=1;
114     while(temp->next!=root)
```

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Compiler Resources Compile Log Debug Find Results

Line: 113 Col: 7 Sel: 0 Lines: 296 Length: 4692 Insert Done parsing in 0.016 seconds



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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug double_circular.c even_doublelinkedlist.c prime_double_ll.c Min_Max_linkedlist.c Double_linkedlist.c

```
113     int c=1;
114     while(temp->next!=root)
115     {
116         temp=temp->next;
117         c++;
118     }
119     return c;
120 }
121
122 npt delete_beg(npt root)
123 {
124     npt temp;
125     if(root == NULL)
126     {
127         printf("\n UNDERFLOW");
128     }
129     else if(root->next == root)
130     {
131         root = NULL;
132         printf("Deleted node:%d",root->data);
133         free(root);
134     }
135 }
```

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Compiler Resources Compile Log Debug Find Results

Line: 118 Col: 1 Sel: 0 Lines: 296 Length: 4692 Insert Done parsing in 0.016 seconds



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D:\academics\2-1 sem\ds lab programmes\double_circular.c - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug double_circular.c even_doublelinkedlist.c prime_double_ll.c Min_Max_linkedlist.c Double_linkedlist.c

```
136     else
137     {
138         temp = root;
139         while(temp -> next != root)
140         {
141             temp = temp -> next;
142         }
143         temp -> next = root -> next;
144         root -> next -> prev = temp;
145         printf("Deleted node:%d", root -> data) ;
146         free(root);
147         root = temp -> next;
148     }
149     return root;
150 }
151
152
153 npt delete_end(npt root)
154 {
155     npt temp, p;
156     temp = root;
157     while(temp -> next != root)
158     {
```

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Compiler Resources Compile Log Debug Find Results

Line: 157 Col: 8 Sel: 0 Lines: 296 Length: 4692 Insert Done parsing in 0.016 seconds

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D:\academics\2-1 sem\ds lab programmes\double_circular.c - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug double_circular.c even_doublelinkedlist.c prime_double_ll.c Min_Max_linkedlist.c Double_linkedlist.c

```
159
160     p=temp;
161     temp=temp->next;
162
163 }
164 p->next=root;
165 root->prev=p;
166 printf("Deleted element:%d\n",temp->data);
167 free(temp);
168 return root;
169 }
170
171 npt delete_mid(npt root, int pos)
172 {
173     int i;
174     npt temp=root;
175     if(pos>count(root))
176     {
177         printf("Deletion not possible\n");
178         return root;
179     }
180     else if(pos==1)
181     {
```

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Compiler Resources Compile Log Debug Find Results

Line: 180 Col: 8 Sel: 0 Lines: 296 Length: 4692 Insert Done parsing in 0.016 seconds



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DEV D:\academics\2-1 sem\ds lab programmes\double_circular.c - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug double_circular.c even_doublelinkedlist.c prime_double_ll.c Min_Max_linkedlist.c Double_linkedlist.c

```
181 {
182     delete_beg(root);
183     return;
184 }
185 else if(pos==count(root))
186 {
187     delete_end(root);
188     return;
189 }
190 else
191 {
192     for(i=1;i<pos;i++)
193     {
194         temp=temp->next;
195     }
196     if(temp!=NULL)
197     {
198         temp->prev->next=temp->next;
199         temp->next->prev=temp->prev;
200         printf("Deleted element:%d\n",temp->data);
201         free(temp);
202     }
203 }
```

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Compiler Resources Compile Log Debug Find Results

Line: 202 Col: 6 Sel: 0 Lines: 296 Length: 4692 Insert Done parsing in 0.016 seconds

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D:\academics\2-1 sem\ds lab programmes\double_circular.c - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug double_circular.c even_doublelinkedlist.c prime_double_ll.c Min_Max_linkedlist.c Double_linkedlist.c

```
204     return root;
205 }
206
207 void display(npt root)
208 {
209     npt temp;
210     temp=root;
211     if(temp==NULL)
212     {
213         printf("empty");
214         return;
215     }
216     else
217     {
218         while(temp->next!=root)
219         {
220             printf("%4d",temp->data);
221             temp=temp->next;
222         }
223         printf("%4d",temp->data);
224         printf("\n");
225     }
226 }
```

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Compiler Resources Compile Log Debug Find Results

Line: 225 Col: 2 Sel: 0 Lines: 296 Length: 4692 Insert Done parsing in 0.016 seconds



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DEV D:\academics\2-1 sem\ds lab programms\double_circular.c - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug double_circular.c even_doublelinkedlist.c prime_double_ll.c Min_Max_linkedlist.c Double_linkedlist.c

```
227 L }
228
229
230 int main()
231 {
232     npt root=NULL;
233     int x,ch,pos,c;
234     printf("Select your choice:\n");
235     printf("1.Insertion at begin\n");
236     printf("2.Insertion at end\n");
237     printf("3.Insertion at middle\n");
238     printf("4.Deletion at begin\n");
239     printf("5.Deletion at end\n");
240     printf("6.Deletion at middle\n");
241     printf("7.Display\n");
242     printf("8.Count\n");
243     printf("9.Exit\n");
244     do
245     {
246         printf(" enter your choice:\n");
247         scanf("%d",&ch);
248         switch(ch)
249         {
```

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Compiler Resources Compile Log Debug Find Results

Line: 248 Col: 5 Sel: 0 Lines: 296 Length: 4692 Insert Done parsing in 0.016 seconds



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9/22/2020

D:\academics\2-1 sem\ds lab programms\double_circular.c - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug double_circular.c even_doublelinkedlist.c prime_double_ll.c Min_Max_linkedlist.c Double_linkedlist.c

```
251         printf(" enter element:\n");
252         scanf("%d",&x);
253         root=insert_beg(root,x);
254         break;
255     case 2:
256         printf("enter element:\n");
257         scanf("%d",&x);
258         root=insert_end(root,x);
259         break;
260     case 3:
261         printf("enter element:\n");
262         scanf("%d",&x);
263         printf("enter position:\n");
264         scanf("%d",&pos);
265         root=insert_middle(root,x,pos);
266         break;
267     case 4:
268         root=delete_beg(root);
269         break;
270
271     case 5:
272         delete_end(root);
273         break;
```

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Compiler Resources Compile Log Debug Find Results

Line: 272 Col: 5 Sel: 0 Lines: 296 Length: 4692 Insert Done parsing in 0.016 seconds



9:35 PM
9/22/2020

D:\academics\2-1 sem\ds lab programms\double_circular.c - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug double_circular.c even_doublelinkedlist.c prime_double_ll.c Min_Max_linkedlist.c Double_linkedlist.c

```
273         break;
274
275     case 6:
276         printf("Enter position to delete:\n");
277         scanf("%d",&pos);
278         root=delete_mid(root,pos);
279         break;
280
281     case 7:
282         display(root);
283         break;
284
285     case 8:
286         c=count(root);
287         printf("Count=%d\n",c);
288         break;
289     case 9:
290         exit(1);
291
292     }
293     }while(ch<=9);
294 }
295
```

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Compiler Resources Compile Log Debug Find Results

Line: 294 Col: 2 Sel: 0 Lines: 296 Length: 4692 Insert Done parsing in 0.016 seconds



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D:\academics\2-1 sem\ds lab programmes\double_circular.exe

```
Select your choice:
1.Insertion at begin
2.Insertion at end
3.Insertion at middle
4.Deletion at begin
5.Deletion at end
6.Deletion at middle
7.Display
8.Count
9.Exit
enter your choice:
1
enter element:
11
enter your choice:
1
enter element:
10
enter your choice:
1
enter element:
9
enter your choice:
1
enter element:
8
enter your choice:
1
enter element:
7
enter your choice:
7
7 8 9 10 11
enter your choice:
5
Deleted element:11
enter your choice:
7
7 8 9 10
enter your choice:
6
Enter position to delete:
2
Deleted element:8
```

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9:36 PM
9/22/2020



D:\academics\2-1 sem\ds lab programmes\double_circular.exe

```
1
enter element:
8
enter your choice:
1
enter element:
7
enter your choice:
7
    7  8  9 10 11
enter your choice:
5
Deleted element:11
enter your choice:
7
    7  8  9 10
enter your choice:
6
Enter position to delete:
2
Deleted element:8
enter your choice:
9
```

```
-----
Process exited after 43.7 seconds with return value 1
Press any key to continue . . .
```

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