

main.c [linked list using functions] - Code::Blocks 20.03

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<global> main0: void

Management
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linked list using functions
Sources
main.c

```
1 #include<stdio.h>
2 #include<stdlib.h>
3 #include<conio.h>
4 struct node
5 {
6     int info;
7     struct node*link;
8 }
9
10 typedef struct node*NODE;
11 NODE getnode()
12 {
13     NODE x;
14     x=(NODE)malloc(sizeof(struct node));
15     if(x==NULL)
16     {
17         printf("memory full\n");
18         exit(0);
19     }
20     return x;
21 }
22 void freenode(NODE x)
23 {
24     free(x);
25 }
26 NODE insert_front(NODE first,int item)
27 {
28     NODE temp;
29     temp=getnode();
30     temp->info=item;
31     temp->link=NULL;
32     if(first==NULL)
33     return temp;
34     temp->link=first;
35     first=temp;
36     return first;
37 }
```

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C/C++

Windows (CR+LF)

WINDOWS-1252

Line 217, Col 2, Pos 4262

Insert

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<global> main0: void

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- main.c

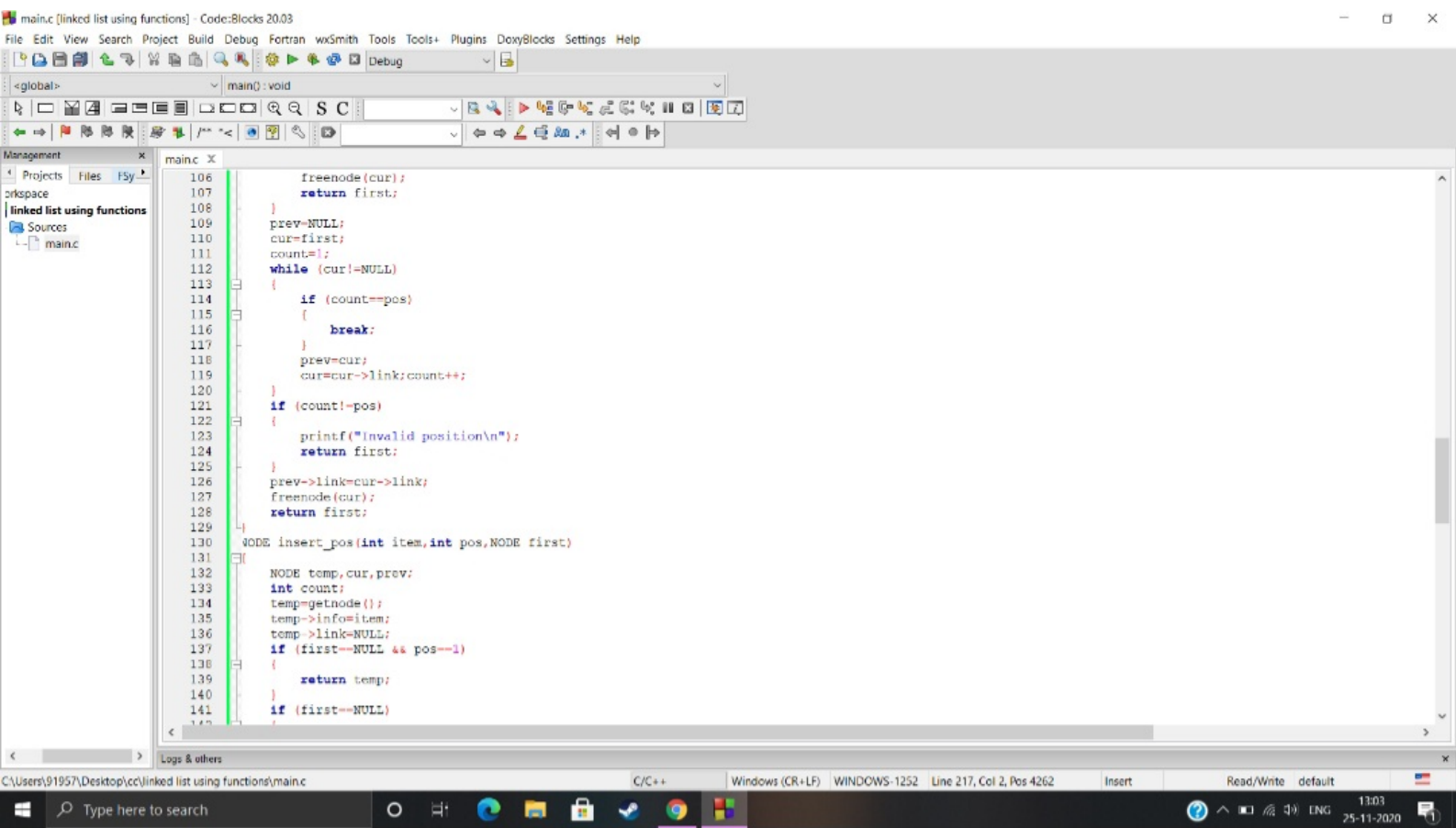
```
36 return first;
37
38 void delete_front(NODE first)
39 {
40     NODE temp;
41     if(first==NULL)
42     {
43         printf("list is empty cannot delete\n");
44         return first;
45     }
46     temp=first;
47     temp=temp->link;
48     printf("item deleted at front end is=%d \n",first->info);
49     free(first);
50     return temp;
51 }
52 void insert_rear(NODE first,int item)
53 {
54     NODE temp,cur;
55     temp=getnode();
56     temp->info=item;
57     temp->link=NULL;
58     if(first==NULL)
59     return temp;
60     cur=first;
61     while(cur->link!=NULL)
62     cur=cur->link;
63     cur->link=temp;
64     return first;
65 }
66 void delete_rear(NODE first)
67 {
68     NODE cur,prev;
69     if(first==NULL)
70     {
71         printf("list is empty cannot delete\n");
72         return first;
73     }
```

Log & others

C/C++ Windows (CR+LF) WINDOWS-1252 Line 217, Col 2, Pos 4262 Insert Read/Write default

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<global> main0: void

Management

linked list using functions

main.c

```
141 if (first==NULL)
142 {
143     printf("Invalid position\n");
144     return NULL;
145 }
146 if (pos==1)
147 {
148     temp->link=first;
149     return temp;
150 }
151 count=1;
152 prev=NULL;
153 cur=first;
154 while (cur!=NULL && count!=pos)
155 {
156     prev=cur;
157     cur=cur->link;
158     count++;
159 }
160 if (count==pos)
161 {
162     prev->link=temp;
163     temp->link=cur;
164     return first;
165 }
166 printf("Invalid position\n");
167 return first;
168
169 void display(NODE first)
170 {
171     NODE temp;
172     if(first==NULL)
173     printf("List empty cannot display items\n");
174     for(temp=first;temp!=NULL;temp=temp->link)
175     {
176         printf("%d\t",temp->info);
177     }
```

Log & others

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main.c [linked list using functions] - Code::Blocks 20.03

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<global> main0: void

Management x

Projects Files Sys

workspace

linked list using functions

Sources

main.c

```
177     printf("%d\n", temp->info);
178 }
179
180 void main()
181 {
182     int item, choice, pos;
183     NODE first=NULL;
184     for(;;)
185     {
186         printf("\n 1:Insert_front\n 2:Delete_front\n 3:Insert_rear\n 4:Delete_rear\n 5:Delete at specified position\n 6:Insert at specified position\n 7:Display\n 8:Exit\n");
187         printf("enter the choice\n");
188         scanf("%d", &choice);
189         switch(choice)
190         {
191             case 1:printf("enter the item at front end\n");
192                     scanf("%d", &item);
193                     first=insert_front(first, item);
194                     break;
195             case 2:first=delete_front(first);
196                     break;
197             case 3:printf("enter the item at rear end\n");
198                     scanf("%d", &item);
199                     first=insert_rear(first, item);
200                     break;
201             case 4:first=delete_rear(first);
202                     break;
203             case 5:printf("Enter the position:\n");
204                     scanf("%d", &pos);
205                     first=delete_pos(pos, first);
206                     break;
207             case 6:printf("Enter the item and the position:\n");
208                     scanf("%d%d", &item, &pos);
209                     first=insert_pos(item, pos, first);
210                     break;
211             case 7:display(first);
212                     break;
213             default:exit(0);
214         }
215     }
216 }
```

Logs & others

C/C++ Windows (CR+LF) WINDOWS-1252 Line 217, Col 2, Pos 4262 Insert Read/Write default

C:\Users\91957\Desktop\cc\linked list using functions\main.c

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11:03 25-11-2020

```
"C:\Users\91957\Desktop\cc\linked list using functions\bin\Debug\linked list using functions.exe"

1:Insert_front
2:Delete_front
3:Insert_rear
4:Delete_rear
5:Delete at specified position
6:Insert at specified position
7:Display_list
8:EXIT
enter the choice
1
enter the item at front end
5

1:Insert_front
2:Delete_front
3:Insert_rear
4:Delete_rear
5:Delete at specified position
6:Insert at specified position
7:Display_list
8:EXIT
enter the choice
1
enter the item at front end
10

1:Insert_front
2:Delete_front
3:Insert_rear
4:Delete_rear
5:Delete at specified position
```

```
"C:\Users\91957\Desktop\cc\linked list using functions\bin\Debug\linked list using functions.exe"
6:Insert at specified position
7:Display_list
8:EXIT
enter the choice
1
enter the item at front end
10

1:Insert_front
2:Delete_front
3:Insert_rear
4:Delete_rear
5:Delete at specified position
6:Insert at specified position
7:Display_list
8:EXIT
enter the choice
1
enter the item at front end
20

1:Insert_front
2:Delete_front
3:Insert_rear
4:Delete_rear
5:Delete at specified position
6:Insert at specified position
7:Display_list
8:EXIT
enter the choice
7
20
```

Windows taskbar at the bottom shows the search bar with "Type here to search", several application icons (Edge, File Explorer, Mail, Teams, Chrome, etc.), and system tray icons including volume, network, and date/time (11:13, 25-11-2020).

```
"C:\Users\91957\Desktop\cc\linked list using functions\bin\Debug\linked list using functions.exe"
7
20
10
5
1:Insert_front
2:Delete_front
3:Insert_rear
4:Delete_rear
5:Delete at specified position
6:Insert at specified position
7:Display_list
8:EXIT
enter the choice
6
Enter the item and the position:
30
2
1:Insert_front
2:Delete_front
3:Insert_rear
4:Delete_rear
5:Delete at specified position
6:Insert at specified position
7:Display_list
8:EXIT
enter the choice
7
20
30
10
```



```
"C:\Users\91957\Desktop\cc\linked list using functions\bin\Debug\linked list using functions.exe"
20
30
10
5

1:Insert_front
2:Delete_front
3:Insert_rear
4:Delete_rear
5:Delete at specified position
6:Insert at specified position
7:Display_list
8:EXIT
enter the choice
5
Enter the position:
4

1:Insert_front
2:Delete_front
3:Insert_rear
4:Delete_rear
5:Delete at specified position
6:Insert at specified position
7:Display_list
8:EXIT
enter the choice
7
20
30
10
```

Windows taskbar at the bottom shows the search bar with "Type here to search", several application icons (Edge, File Explorer, Mail, WhatsApp, Chrome, etc.), and system tray icons including network, volume, and date/time (13:13, 25-11-2020).