File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

TDM-GCC 4.9.2 64-bit Release

linkedlist.c

```c
1  #include<stdio.h>
2  #include<conio.h>
3  #include<malloc.h>
4  #include<process.h>
5  struct node
6  {
7     int info;
8     struct node *link;
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("mem 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)
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

☐ Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\asus\OneDrive\linkedlist.exe
- Output Size: 130.9990234375 KiB
- Compilation Time: 0.92s
```

Line: 214   Col: 12   Sel: 0   Lines: 223   Length: 3677   Insert   Done parsing in 0.031 seconds

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

TDM-GCC 4.9.2 64-bit Release

linkedlist.c

```c
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  }
38  NODE 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;
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\asus\OneDrive\linkedlist.exe
- Output Size: 130.9990234375 KiB
- Compilation Time: 0.92s
```

Line: 214   Col: 12   Sel: 0   Lines: 223   Length: 3677   Insert   Done parsing in 0.031 seconds

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

TDM-GCC 4.9.2 64-bit Release

linkedlist.c

```c
52    NODE 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    NODE 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  }
74    if(first->link==NULL)
75  {
76    printf("item deleted is %d\n",first->info);
77    free(first);
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

☐ Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
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- Output Filename: C:\Users\asus\OneDrive\linkedlist.exe
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```

Line: 214   Col: 12   Sel: 0   Lines: 223   Length: 3677   Insert   Done parsing in 0.031 seconds

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

TDM-GCC 4.9.2 64-bit Release

linkedlist.c

```c
76   printf("item deleted is %d\n",first->info);
77   free(first);
78   return NULL;
79   }
80   prev=NULL;
81   cur=first;
82   while(cur->link!=NULL)
83   {
84   prev=cur;
85   cur=cur->link;
86   }
87   printf("iten deleted at rear-end is %d",cur->info);
88   free(cur);
89   prev->link=NULL;
90   return first;
91   }
92   NODE insert_pos(int item,int pos,NODE first)
93   {
94   NODE temp;
95   NODE prev,cur;
96   int count;
97   temp=getnode();
98   temp->info=item;
99   temp->link=NULL;
100  if(first==NULL && pos==1)
101  return temp;
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

☐ Shorten compiler paths

```
Compilation results...
--------
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```

Line: 214   Col: 12   Sel: 0   Lines: 223   Length: 3677   Insert   Done parsing in 0.031 seconds

🔍 Search   ENG 11:54 AM
                             IN   11/25/2020

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

TDM-GCC 4.9.2 64-bit Release

linkedlist.c

```c
100   if(first==NULL && pos==1)
101   return temp;
102   if(first==NULL)
103   {
104     printf("invalid pos\n");
105     return first;
106   }
107   if(pos==1)
108   {
109   temp->link=first;
110   return temp;
111   }
112   count=1;
113   prev=NULL;
114   cur=first;
115   while(cur!=NULL && count!=pos)
116   {
117     prev=cur;
118     cur=cur->link;
119     count++;
120   }
121   if(count==pos)
122   {
123   prev->link=temp;
124   temp->link=cur;
125   return first;
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\asus\OneDrive\linkedlist.exe
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```

Line: 214   Col: 12   Sel: 0   Lines: 223   Length: 3677   Insert   Done parsing in 0.031 seconds

(globals)

TDM-GCC 4.9.2 64-bit Release

linkedlist.c

```c
127    printf("IP\n");
128    return first;
129  }
130  void display(NODE first)
131  {
132    NODE temp;
133    if(first==NULL)
134    printf("list empty cannot display items\n");
135    for(temp=first;temp!=NULL;temp=temp->link)
136      {
137      printf("%d\n",temp->info);
138      }
139  }
140  NODE delete_pos(int pos,NODE first)
141  {
142      NODE prev,cur;
143      int count;
144      if (first==NULL || pos<=0)
145      {
146          printf("Invalid position\n");
147          return NULL;
148      }
149      if (pos==1)
150      {
151          cur=first;
152          first=first->link;
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

☐ Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
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File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

TDM-GCC 4.9.2 64-bit Release

linkedlist.c

```c
145     {
146         printf("Invalid position\n");
147         return NULL;
148     }
149     if (pos==1)
150     {
151         cur=first;
152         first=first->link;
153         freenode(cur);
154         return first;
155     }
156     prev=NULL;
157     cur=first;
158     count=1;
159     while (cur!=NULL)
160     {
161         if (count==pos)
162         {
163             break;
164         }
165         prev=cur;
166         cur=cur->link; count++;
167     }
168     if (count!=pos)
169     {
170         printf("Invalid position\n");
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

☐ Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\asus\OneDrive\linkedlist.exe
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```

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File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

TDM-GCC 4.9.2 64-bit Release

linkedlist.c

```c
160         {
161             if (count==pos)
162             {
163                 break;
164             }
165             prev=cur;
166             cur=cur->link; count++;
167         }
168         if (count!=pos)
169         {
170             printf("Invalid position\n");
171             return first;
172         }
173         prev->link=cur->link;
174         freenode(cur);
175         return first;
176     }


    void main()
    {
        int item,choice,pos;
        NODE first=NULL;
        for(;;)
        {
            printf("\n 1:Insert_front\n 2:Delete_front\n 3:Insert_rear\n 4:Delete_rear\n 5:insert_pos\n 6:delete at specifi
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

Shorten compiler paths

```
Compilation results...
--------
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- Warnings: 0
- Output Filename: C:\Users\asus\OneDrive\linkedlist.exe
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```

Line: 214   Col: 12   Sel: 0   Lines: 223   Length: 3677   Insert   Done parsing in 0.031 seconds

Search   ENG   11:55 AM   IN   11/25/2020

File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

TDM-GCC 4.9.2 64-bit Release

linkedlist.c

```c
181  int item,choice,pos;
182  NODE first =NULL;
183  for(;;)
184  {
185  printf("\n 1:Insert_front\n 2:Delete_front\n 3:Insert_rear\n 4:Delete_rear\n 5:insert_pos\n 6:delete at specifi
186  printf("enter the choice\n");
187  scanf("%d",&choice);
188  switch(choice)
189  {
190    case 1:printf("enter the item at front-end\n");
191         scanf("%d",&item);
192         first =insert_front(first,item);
193         break;
194    case 2:first =delete_front(first);
195         break;
196    case 3:printf("enter the item at rear-end\n");
197         scanf("%d",&item);
198         first =insert_rear(first,item);
199         break;
200    case 4:first =delete_rear(first);
201         break;
202    case 5:printf("enter the position\n");
203           scanf("%d",&pos);
204           printf("enter the item \n");
205            scanf("%d",&item);
206           first =insert_pos(item,pos,first);
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

☐ Shorten compiler paths

```
Compilation results...
--------
- Errors: 0
- Warnings: 0
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```

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File   Edit   Search   View   Project   Execute   Tools   AStyle   Window   Help

(globals)

TDM-GCC 4.9.2 64-bit Release

linkedlist.c

```c
198              first=insert_rear(first,item);
199              break;
200       case 4:first=delete_rear(first);
201              break;
202       case 5:printf("enter  the  position\n");
203                  scanf("%d",&pos);
204                  printf("enter the item \n");
205                   scanf("%d",&item);
206                  first=insert_pos(item,pos,first);
207                  break;
208       case 6:
209          printf("Enter  the  positon  to  delete  the  node\n");
210          scanf("%d",&pos);
211
212       first=delete_pos(  pos,first);
213
214              break;
215       case 7:display(first);
216              break;
217     default:exit(0);
218              break;
219     }
220   }
221   }
222
223
```

Compiler   Resources   Compile Log   Debug   Find Results   Close

Abort Compilation

☐ Shorten compiler paths

```
Compilation results...
--------
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- Warnings: 0
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```

Line: 214   Col: 12   Sel: 0   Lines: 223   Length: 3677   Insert   Done parsing in 0.031 seconds

Search

ENG   11:55 AM
IN   11/25/2020

```
1:Insert_front
2:Delete_front
3:Insert_rear
4:Delete_rear
5:insert_pos
6:delete 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:insert_pos
6:delete 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:insert_pos
6:delete at specified position
7:display_list
8:Exit
enter the choice
1
enter the item at front-end
30

1:Insert_front
2:Delete_front
3:Insert_rear
4:Delete_rear
5:insert_pos
6:delete at specified position
7:display_list
8:Exit
enter the choice
1
```

```
1
enter the item at front-end
30

 1:Insert_front
 2:Delete_front
 3:Insert_rear
 4:Delete_rear
 5:insert_pos
 6:delete at specified position
7:display_list
8:Exit
enter the choice
1
enter the item at front-end
40

 1:Insert_front
 2:Delete_front
 3:Insert_rear
 4:Delete_rear
 5:insert_pos
 6:delete at specified position
7:display_list
8:Exit
enter the choice
1
enter the item at front-end
50

 1:Insert_front
 2:Delete_front
 3:Insert_rear
 4:Delete_rear
 5:insert_pos
 6:delete at specified position
7:display_list
8:Exit
enter the choice
3
enter the item at rear-end
60

 1:Insert_front
 2:Delete_front
 3:Insert_rear
 4:Delete_rear
 5:insert_pos
 6:delete at specified position
7:display_list
```

```
7:display_list
8:Exit
enter the choice
3
enter the item at rear-end
60

 1:Insert_front
 2:Delete_front
 3:Insert_rear
 4:Delete_rear
 5:insert_pos
 6:delete at specified position
7:display_list
8:Exit
enter the choice
3
enter the item at rear-end
70

 1:Insert_front
 2:Delete_front
 3:Insert_rear
 4:Delete_rear
 5:insert_pos
 6:delete at specified position
7:display_list
8:Exit
enter the choice
3
enter the item at rear-end
80

 1:Insert_front
 2:Delete_front
 3:Insert_rear
 4:Delete_rear
 5:insert_pos
 6:delete at specified position
7:display_list
8:Exit
enter the choice
3
enter the item at rear-end
90

 1:Insert_front
 2:Delete_front
 3:Insert_rear
 4:Delete_rear
```

```
 1:Insert_front
 2:Delete_front
 3:Insert_rear
 4:Delete_rear
 5:insert_pos
 6:delete at specified position
7:display_list
8:Exit
enter the choice
3
enter the item at rear-end
100

 1:Insert_front
 2:Delete_front
 3:Insert_rear
 4:Delete_rear
 5:insert_pos
 6:delete at specified position
7:display_list
8:Exit
enter the choice
2
item deleted at front-end is=50

 1:Insert_front
 2:Delete_front
 3:Insert_rear
 4:Delete_rear
 5:insert_pos
 6:delete at specified position
7:display_list
8:Exit
enter the choice
4
iten deleted at rear-end is 100
 1:Insert_front
 2:Delete_front
 3:Insert_rear
 4:Delete_rear
 5:insert_pos
 6:delete at specified position
7:display_list
8:Exit
enter the choice
7
40
30
20
```

```
 6:delete at specified position
7:display_list
8:Exit
enter the choice
7
40
30
20
10
60
70
80
90

 1:Insert_front
 2:Delete_front
 3:Insert_rear
 4:Delete_rear
 5:insert_pos
 6:delete at specified position
7:display_list
8:Exit
enter the choice
6
Enter the positon to delete the node
2
item deleted is 30

 1:Insert_front
 2:Delete_front
 3:Insert_rear
 4:Delete_rear
 5:insert_pos
 6:delete at specified position
7:display_list
8:Exit
enter the choice
6
Enter the positon to delete the node
4
item deleted is 60

 1:Insert_front
 2:Delete_front
 3:Insert_rear
 4:Delete_rear
 5:insert_pos
 6:delete at specified position
7:display_list
8:Exit
```