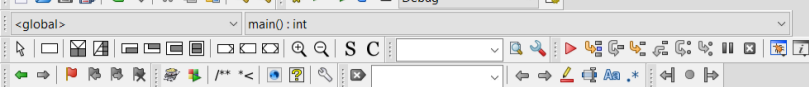


main.c [WAP to implement stack and queues] - Code::Blocks 20.03

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<global> main():int



Management

Projects Files FSy

Workspace

WAP to implement stack and queues

Sources

main.c

main.c

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

Logs & others

C:\Users\91957\Desktop\cc\WAP to implement stack and queues\main.c

C/C++

Windows (CR+LF)

WINDOWS-1252

Line 123, Col 2, Pos 2004

Insert

Read/Write

default



main.c [WAP to implement stack and queues] - Code::Blocks 20.03

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Debug

<global> main0: int

Management

Projects Files FSy

Workspace

WAP to implement stack and queues

Sources

main.c

main.c

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

<

>

Logs & others

C:\Users\91957\Desktop\cc\WAP to implement stack and queues\main.c

C/C++

Windows (CR+LF)

WINDOWS-1252

Line 123, Col 2, Pos 2004

Insert

Read/Write

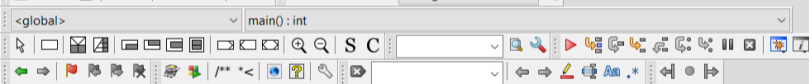
default

US

main.c [WAP to implement stack and queues] - Code::Blocks 20.03

File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

<global> main(): int



Management

Projects Files FSy

Workspace

WAP to implement stack and queues

Sources

main.c

main.c

```
73 printf("list is empty cannot delete\n");
74 return first;
75
76 -}
77 temp=first;
78 temp=temp->link;
79 printf("item deleted at front-end is=%d\n",first->info);
80 free(first);
81 return temp;
82 -}
83
84 void display(NODE first)
85 {
86     NODE temp;
87     if(first==NULL)
88         printf("list empty cannot display items\n");
89     for(temp=first;temp!=NULL;temp=temp->link)
90     {
91         printf("%d\n",temp->info);
92     }
93 }
94
95 int main()
96 {
97     int item,choice;
98     NODE first=NULL;
99     printf("STACK-insert rear and delete rear\nQUEUE-insert rear and delete front\n");
100    printf("\n 1:Insert_rear\n 2:Delete_rear\n 3:Delete_front\n 4:Display_list\n 5:Exit\n");
101    do
102    {
103        printf("enter the choice\n");
104        scanf("%d",&choice);
105        switch(choice)
106        {
107            case 1:printf("enter the item at rear-end\n");
108                scanf("%d",&item);
109                first=insert_rear(first,item);
110            case 2:printf("enter the item at front-end\n");
111                scanf("%d",&item);
112                first=insert_front(first,item);
113            case 3:printf("delete item at rear-end\n");
114                delete_rear(first);
115            case 4:display(first);
116            case 5:exit(0);
117        }
118    }while(choice!=5);
119    return 0;
120 }
```

Logs & others

C:\Users\91957\Desktop\cc\WAP to implement stack and queues\main.c

C/C++

Windows (CR+LF)

WINDOWS-1252

Line 123, Col 2, Pos 2004

Insert

Read/Write default



main.c [WAP to implement stack and queues] - Code::Blocks 20.03

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Debug

<global> main0: int

Management Projects Files FSy workspace WAP to implement stack a Sources main.c

```
89 for(temp=first;temp!=NULL;temp=temp->link)
90 {
91     printf("%d\n",temp->info);
92 }
93
94
95 int main()
96 {
97     int item,choice;
98     NODE first=NULL;
99     printf("STACK-insert rear and delete rear\nQUEUE-insert rear and delete front\n");
100    printf("\n 1:Insert_rear\n 2:Delete_rear\n 3:Delete_front\n 4:Display_list\n 5:Exit\n");
101    do
102    {
103        printf("enter the choice\n");
104        scanf("%d",&choice);
105        switch(choice)
106        {
107            case 1:printf("enter the item at rear-end\n");
108                scanf("%d",&item);
109                first=insert_rear(first,item);
110                break;
111            case 2:first=delete_rear(first);
112                break;
113            case 3:first=delete_front(first);
114                break;
115            case 4:display(first);
116                break;
117            case 5:break;
118            default:printf("invalid choice");
119                break;
120        }
121    }while(choice!=5);
122    return 0;
123 }
124
```

Logs & others

C:\Users\91957\Desktop\cc\WAP to implement stack and queues\main.c

C/C++

Windows (CR+LF)

WINDOWS-1252

Line 121, Col 19, Pos 1990

Insert

Read/Write

default



"C:\Users\91957\Desktop\cc\WAP to implement stack and queues\bin\Debug\WAP to implement stack and queues.exe"

STACK-insert rear and delete rear
QUEUE-insert rear and delete front

1:Insert_rear
2:Delete_rear
3:Delete_front
4:Display_list
5:Exit
enter the choice
1
enter the item at rear-end
10
enter the choice
1
enter the item at rear-end
20
enter the choice
1
enter the item at rear-end
30
enter the choice
4
10
20
30
enter the choice
3
item deleted at front-end is=10
enter the choice
2
item deleted at rear-end is 30
enter the choice

```
"C:\Users\91957\Desktop\cc\WAP to implement stack and queues\bin\Debug\WAP to implement stack and queues.exe"
item deleted is 20
enter the choice
4
list empty cannot display items
enter the choice
```