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lab3.c - CodeBlocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DsnyBlocks Settings Help
C:\global
lab3.c X lab32.c X
1 #include <stdio.h>
2 #define SIZE 5
3 int q[SIZE];
4 int front=-1;
5 int rear=-1;
6
7 void insert()
8 {
9     int item;
10    if(rear==SIZE-1){
11        printf("Queue is full\n");
12    }
13    else{
14        printf("Enter element:");
15        scanf("%d",&item);
16        if(front==0){
17            front++;
18        }
19        rear++;
20        q[rear]=item;
21    }
22 }
23
24 void delete()
25 {
26    if(front==0 && front>rear){
27        printf("Queue is empty\n");
28    }
29    else{
30        printf("Element deleted at %d\n",q[front]);
31        front++;
32    }
33 }
34
35 void display()
36 {
37    if(front==0 && front>rear){
38        printf("Queue is empty\n");
39    }
40    else{
41        for(int i=front;i<=rear;i++){
42            printf("%d ",q[i]);
43        }
44    }
45 }
46
47 int main()
48 {
49     int choice;
50     while(1)
51     {
52         printf("1. Insert\n 2. Delete\n 3. Display\n 4. Exit\n");
53         scanf("%d",&choice);
54         switch(choice)
55         {
56             case 1:insert();break;
57             case 2:delete();break;
58             case 3:display();break;
59             case 4:printf("Exit\n");return 0;
60             default:printf("Invalid\n");
61         }
62     }
63 }
```

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lab3.c - CodeBlocks 20.03
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C:\global
lab3.c X lab32.c X
19 rear++;
20 q[rear]=item;
21 }
22 }
23
24 void delete()
25 {
26    if(front==0 && front>rear){
27        printf("Queue is empty\n");
28    }
29    else{
30        printf("Element deleted at %d\n",q[front]);
31        front++;
32    }
33 }
34
35 void display()
36 {
37    if(front==0 && front>rear){
38        printf("Queue is empty\n");
39    }
40    else{
41        for(int i=front;i<=rear;i++){
42            printf("%d ",q[i]);
43        }
44    }
45 }
46
47 int main()
48 {
49     int choice;
50     while(1)
51     {
52         printf("1. Insert\n 2. Delete\n 3. Display\n 4. Exit\n");
53         scanf("%d",&choice);
54         switch(choice)
55         {
56             case 1:insert();break;
57             case 2:delete();break;
58             case 3:display();break;
59             case 4:printf("Exit\n");return 0;
60             default:printf("Invalid\n");
61         }
62     }
63 }
```



```
C:\Users\Admin\Desktop\180405193\lab1.exe
2 is deleted
Queue Menu
1 to Insert
2 to Delete
3 to Display
4 to Exit
enter choice

2 is deleted
Queue Menu
1 to Insert
2 to Delete
3 to Display
4 to Exit
enter choice

2 is deleted
Queue Menu
1 to Insert
2 to Delete
3 to Display
4 to Exit
enter choice

Under flow
Queue Menu
1 to Insert
2 to Delete
3 to Display
4 to Exit
enter choice

Under flow
Queue Menu
1 to Insert
2 to Delete
3 to Display
4 to Exit
enter choice

No elements
Queue Menu
1 to Insert
2 to Delete
3 to Display
4 to Exit
enter choice

exit
Process returned 0 (0x0)   execution time : 28.301 s
Press any key to continue.
```

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lab12.c - Code Blocks 20.03
File Edit View Search Project Build Debug Fortran wsSmith Tools Tools+ Plugins DsnyBlocks Settings Help
Save everything
lab12.c
Management
Projects Files Symbols
Workspace
1 #include<stdio.h>
2 #define SIZE 5
3 int q[SIZE];
4 int front=-1;
5 int rear=-1;
6
7 void insert()
8 {
9     int item;
10    if((front==0 && rear==SIZE-1)|| (rear+1)%SIZE==front)
11        printf("\n over flow");
12    }
13    else{
14        printf("\n Enter element");
15        scanf("%d",&item);
16        if(front==0){
17            front=0;
18            rear=0;
19        }
20        else{
21            rear=(rear+1)%SIZE;
22        }
23        q[rear]=item;
24    }
25 }
26
27
28
29 void delete()
30 {
31    if(front==0){
32        printf("\n Under flow");
33    }
34    else{
35        printf("\n %d is deleted",q[front]);
36        if(front==rear)
37        {
38            front=-1;
39            rear=-1;
40        }
41        else
42        {
43            front=(front+1)%SIZE;
44        }
45    }
46 }
47
48 void display()
49 {
50 }
```

```
lab3.2.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wsSmith Tools Tools+ Plugins DsnyBlocks Settings Help
Compiler: gcc
Target: x86_64-w64-mingw32
Build system: make
Working directory: /home/user/Code/Blocks/20.03
Project: lab3.2.c
Workspace:
Start here X lab3.2.c X
33
34 }
35 else{
36     printf(" %d is deleted",q[front]);
37     if(front==rear)
38     {
39         front--;
40         rear--;
41     }
42     else
43     {
44         front=(front+1)%SIZE;
45     }
46 }
47
48 void display()
49 {
50     if(front==-1){
51         printf("No elements");
52     }
53     else{
54         for(int i=front;i<SIZE;i++){
55             printf("%d",q[i]);
56         }
57     }
58 }
59
60 int main()
61 {
62     int choice;
63     while(1)
64     {
65         printf("\n Circular Queue Menu");
66         printf("\n 1 to Insert \n 2 to Delete \n 3 to Display \n 4 to Exit\n ");
67         printf("\n enter choice \n");
68         scanf("%d",&choice);
69         switch(choice)
70         {
71             case 1:insert();break;
72             case 2:delete();break;
73             case 3:display();break;
74             case 4:printf("exit");
75                 return 0;
76             default:printf("Invalid");
77         }
78     }
79 }
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```
C:\Users\Admin\Desktop\IMACACSV97lab2.exe
1 to Display
4 to Exit
enter choice
Enter element2
Circular Queue Menu
1 to Insert
2 to Delete
3 to Display
4 to Exit
enter choice
Over Flow
Circular Queue Menu
1 to Insert
2 to Delete
3 to Display
4 to Exit
enter choice
2 Is deleted
Circular Queue Menu
1 to Insert
2 to Delete
3 to Display
4 to Exit
enter choice
2 Is deleted
Circular Queue Menu
1 to Insert
2 to Delete
3 to Display
4 to Exit
enter choice
2 Is deleted
Circular Queue Menu
1 to Insert
2 to Delete
3 to Display
4 to Exit
enter choice
2 Is deleted
Circular Queue Menu
1 to Insert
2 to Delete
3 to Display
4 to Exit
```

Activate Windows
Go to Settings to activate Windows.

```

C:\Users\Admin\Desktop\BMACSY93\lab3.2.exe
2 Is deleted
Circular Queue Menu
1 to Insert
2 to Delete
3 to Display
4 to Exit
enter choice
2
2 Is deleted
Circular Queue Menu
1 to Insert
2 to Delete
3 to Display
4 to Exit
enter choice
2
2 Is deleted
Circular Queue Menu
1 to Insert
2 to Delete
3 to Display
4 to Exit
enter choice
2
Under flow
Circular Queue Menu
1 to Insert
2 to Delete
3 to Display
4 to Exit
enter choice
3
No elements
Circular Queue Menu
1 to Insert
2 to Delete
3 to Display
4 to Exit
enter choice
4
exit
Process returned 0 (0x0)   execution time : 22.964 s
Press any key to continue.

```

Activate Windows
Go to Settings to activate Windows.