

F:\DSA\ASSN 5\queue.c - [Executing] - Dev-C++ 5.11

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug

[*] queue.c

```
1  #include<stdio.h>
2  #include<stdlib.h>
3  #define MAX 5
4
5  int queue_arr[MAX];
6  int rear=-1;
7  int front=-1;
8
9  void insert(int item);
10 int del();
11 int peek();
12 void display();
13 int isFull();
14 int isEmpty();
15
16 int main()
17 {
18     int choice,item;
19     while(1)
20     {
21         printf("\n1.Insert\n");
22         printf("2.Delete\n");
23         printf("3.Display element at the front\n");
24         printf("4.Display all elements of the queue\n");
25         printf("5.Quit\n");
26         printf("\nEnter your choice : ");
27         scanf("%d",&choice);
28
29         switch(choice)
30         {
31             case 1:
32                 printf("\nInput the element for adding in queue : ");
33                 scanf("%d",&item);
34                 insert(item);
35                 break;
```

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About Compilation

Line: 3 Col: 15 Sel: 0 Lines: 121 Length: 2683 Insert Done parsing in 0.016 seconds

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[*] queue.c

```
35         break;
36     case 2:
37         item=del();
38         printf("\nDeleted element is %d\n",item);
39         break;
40     case 3:
41         printf("\nElement at the front is %d\n",peek());
42         break;
43     case 4:
44         display();
45         break;
46     case 5:
47         exit(1);
48     default:
49         printf("\nWrong choice\n");
50     }
51 }
52
53 return 0;
54
55 }
56
57 void insert(int item)
58 {
59     if( isFull() )
60     {
61         printf("\nQueue Overflow\n");
62         return;
63     }
64     if( front == -1 )
65         front=0;
66     rear=rear+1;
67     queue_arr[rear]=item ;
68 }
69
```

Compiler Resources Compile Log Debug Find Results Close

Line: 11 Col: 13 Sel: 0 Lines: 121 Length: 2685 Insert Done parsing in 0.016 seconds

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TDM-GCC 4.9.2 64-bit Release

(globals)

Project Classes Debug

[*] queue.c

```
68 }
69
70 int del()
71 {
72     int item;
73     if( isEmpty() )
74     {
75         printf("\nQueue Underflow\n");
76         exit(1);
77     }
78     item=queue_arr[front];
79     front=front+1;
80     return item;
81 }
82
83 int peek()
84 {
85     if( isEmpty() )
86     {
87         printf("\nQueue Underflow\n");
88         exit(1);
89     }
90     return queue_arr[front];
91 }
92
93 int isEmpty()
94 {
95     if( front==1 || front==rear+1 )
96         return 1;
97     else
98         return 0;
99 }
100
101 int isFull()
102 {
```

Compiler Resources Compile Log Debug Find Results Close

Line: 11 Col: 13 Sel: 0 Lines: 121 Length: 2685 Insert Done parsing in 0.016 seconds

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(globals)

Project Classes Debug

[*] queue.c

```
87         printf("\nQueue Underflow\n");
88         exit(1);
89     }
90     return queue_arr[front];
91 }
92
93 int isEmpty()
94 {
95     if( front== -1 || front==rear+1 )
96         return 1;
97     else
98         return 0;
99 }
100
101 int isFull()
102 {
103     if( rear==MAX-1 )
104         return 1;
105     else
106         return 0;
107 }
108
109 void display()
110 {
111     int i;
112     if ( isEmpty() )
113     {
114         printf("\nQueue is empty\n");
115         return;
116     }
117     printf("\nQueue is :\n\n");
118     for(i=front;i<=rear;i++)
119         printf("%d ",queue_arr[i]);
120     printf("\n\n");
121 }
```

Compiler Resources Compile Log Debug Find Results Close

Line: 11 Col: 13 Sel: 0 Lines: 121 Length: 2685 Insert Done parsing in 0.016 seconds

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F:\DSA\ASSN 5\queue.exe

```
1.Insert
2.Delete
3.Display element at the front
4.Display all elements of the queue
5.Quit
```

```
Enter your choice : 1
```

```
Input the element for adding in queue : 10
```

```
1.Insert
2.Delete
3.Display element at the front
4.Display all elements of the queue
5.Quit
```

```
Enter your choice : 1
```

```
Input the element for adding in queue : 3
```

```
1.Insert
2.Delete
3.Display element at the front
4.Display all elements of the queue
5.Quit
```

```
Enter your choice : 1
```

```
Input the element for adding in queue : 5
```

```
1.Insert
2.Delete
3.Display element at the front
4.Display all elements of the queue
5.Quit
```

```
Enter your choice : 1
```

```
Input the element for adding in queue : 7
```

```
1.Insert
2.Delete
3.Display element at the front
```


F:\DSA\ASSN 5\queue.exe

Input the element for adding in queue : 7

- 1.Insert
- 2.Delete
- 3.Display element at the front
- 4.Display all elements of the queue
- 5.Quit

Enter your choice : 1

Input the element for adding in queue : 8

- 1.Insert
- 2.Delete
- 3.Display element at the front
- 4.Display all elements of the queue
- 5.Quit

Enter your choice : 1

Input the element for adding in queue : 9

Queue Overflow

- 1.Insert
- 2.Delete
- 3.Display element at the front
- 4.Display all elements of the queue
- 5.Quit

Enter your choice : 2

Deleted element is 10

- 1.Insert
- 2.Delete
- 3.Display element at the front
- 4.Display all elements of the queue
- 5.Quit

Enter your choice : 2

Deleted element is 3



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ENG
IN

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F:\DSA\ASSN 5\queue.exe

Deleted element is 3

1.Insert
2.Delete
3.Display element at the front
4.Display all elements of the queue
5.Quit

Enter your choice : 2

Deleted element is 5

1.Insert
2.Delete
3.Display element at the front
4.Display all elements of the queue
5.Quit

Enter your choice : 2

Deleted element is 7

1.Insert
2.Delete
3.Display element at the front
4.Display all elements of the queue
5.Quit

Enter your choice : 2

Deleted element is 8

1.Insert
2.Delete
3.Display element at the front
4.Display all elements of the queue
5.Quit

Enter your choice : 2

Queue Underflow

Process exited after 136.1 seconds with return value 1



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ENG
IN

12:19
01-12-2021



F:\DSA\ASSN 5\queue.exe

```
1.Insert
2.Delete
3.Display element at the front
4.Display all elements of the queue
5.Quit
```

Enter your choice : 2

Deleted element is 7

```
1.Insert
2.Delete
3.Display element at the front
4.Display all elements of the queue
5.Quit
```

Enter your choice : 2

Deleted element is 8

```
1.Insert
2.Delete
3.Display element at the front
4.Display all elements of the queue
5.Quit
```

Enter your choice : 2

Queue Underflow

```
-----
Process exited after 136.1 seconds with return value 1
Press any key to continue . . .
```



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