



<global>

Management

Projects Files FSymbols

Workspace

Start here X Untitled2.c X LAB 2.c X LAB 3 A.c X LAB 03 B.c X

```
1 #include <stdio.h>
2 #define MAX 5
3
4 int cq[MAX];
5 int front = -1, rear = -1;
6
7 void insert() {
8     int item;
9
10     if ((front == 0 && rear == MAX - 1) || (front == rear + 1)) {
11         printf("Circular Queue Overflow!\n");
12         return;
13     }
14
15     printf("Enter element to insert: ");
16     scanf("%d", &item);
17
18     if (front == -1) {
19         front = rear = 0;
20     } else {
21         rear = (rear + 1) % MAX;
22     }
23
24     cq[rear] = item;
25     printf("Inserted %d\n", item);
26 }
27
28 void delete() {
29     if (front == -1) {
30         printf("Circular Queue Underflow!\n");
31         return;
32     }
33 }
```

Logs & others

Code::Blocks X Search results X Cccc X Build log X Build messages X CppCheck/Vera++ X CppCheck/Vera++ messages X Cscope X Debugger X DoxyBlocks X Fortran info X Closed files list X Thread search X

File	Line	Message
		=== Build file: "no target" in "no project" (compiler: unknown) ===
		=== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===

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LAB 03 B.c - Code::Blocks 20.03

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

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Management

Projects Files FSymbols

Workspace

```
34 printf("Deleted %d\n", cq[front]);
35
36 if (front == rear) {
37     front = rear = -1;
38 } else {
39     front = (front + 1) % MAX;
40 }
41
42
43
44 void display() {
45     if (front == -1) {
46         printf("Circular Queue is Empty!\n");
47         return;
48     }
49     printf("Circular Queue elements: ");
50
51     int i = front;
52     while (1) {
53         printf("%d ", cq[i]);
54         if (i == rear)
55             break;
56         i = (i + 1) % MAX;
57     }
58     printf("\n");
59 }
60
61
62 int main() {
63     int choice;
64
65     while (1) {
66         printf("\n--- Circular Queue Menu ---\n");
```

Logs & others

Code::Blocks Search results Cccc Build log Build messages CppCheck/Vera++ CppCheck/Vera++ messages Cscope Debugger DoxyBlocks Fortran info Closed files list Thread search

File	Line	Message
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C/C++ Windows (CR+LF) WINDOWS-1252 Line 37, Col 1, Pos 678 Insert Read/Write default

C:\Users\Admin\Desktop\1BM24C5164\LAB 03 B.c

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LAB 03 B.c - Code::Blocks 20.03

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Management

Projects Files FSymbols

Workspace

```
48     }
49
50     printf("Circular Queue elements: ");
51
52     int i = front;
53     while (1) {
54         printf("%d ", cq[i]);
55         if (i == rear)
56             break;
57         i = (i + 1) % MAX;
58     }
59     printf("\n");
60 }
61
62 int main() {
63     int choice;
64
65     while (1) {
66         printf("\n--- Circular Queue Menu ---\n");
67         printf("1. Insert\n2. Delete\n3. Display\n4. Exit\n");
68         printf("Enter your choice: ");
69         scanf("%d", &choice);
70
71         switch (choice) {
72             case 1: insert(); break;
73             case 2: delete(); break;
74             case 3: display(); break;
75             case 4: return 0;
76             default: printf("Invalid Choice!\n");
77         }
78     }
79 }
80
```

Logs & others

Code::Blocks Search results Cccc Build log Build messages CppCheck/Vera++ CppCheck/Vera++ messages Cscope Debugger DoxyBlocks Fortran info Closed files list Thread search

File	Line	Message
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C/C++ Windows (CR+LF) WINDOWS-1252 Line 37, Col 1, Pos 678 Insert Read/Write default

C:\Users\Admin\Desktop\1BM24CS164\LAB 03 B.c

Type here to search

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"C:\Users\Admin\Desktop\1BM24CS164\LAB 03 B.exe"

```
--- Circular Queue Menu ---
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 3
Circular Queue is Empty!
```

```
--- Circular Queue Menu ---
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 1
Enter element to insert: 6
Inserted 6
```

```
--- Circular Queue Menu ---
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 1
Enter element to insert: 9
Inserted 9
```

```
--- Circular Queue Menu ---
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 1
Enter element to insert: 7
Inserted 7
```

```
--- Circular Queue Menu ---
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 1
Enter element to insert: 8
Inserted 8
```

```
--- Circular Queue Menu ---
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 1
Enter element to insert: 10
Inserted 10
```

```
--- Circular Queue Menu ---
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 1
Circular Queue Overflow!
```

```
--- Circular Queue Menu ---
```

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ENG

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"C:\Users\Admin\Desktop\1BM24CS164\LAB 03 B.exe"

--- Circular Queue Menu ---

1. Insert
2. Delete
3. Display
4. Exit

Enter your choice: 1

Circular Queue Overflow!

--- Circular Queue Menu ---

1. Insert
2. Delete
3. Display
4. Exit

Enter your choice: 11

Invalid Choice!

--- Circular Queue Menu ---

1. Insert
2. Delete
3. Display
4. Exit

Enter your choice: 3

Circular Queue elements: 6 9 7 8 10

--- Circular Queue Menu ---

1. Insert
2. Delete
3. Display
4. Exit

Enter your choice: 2

Deleted 6

--- Circular Queue Menu ---

1. Insert
2. Delete
3. Display
4. Exit

Enter your choice: 4

Process returned 0 (0x0) execution time : 53.316 s

Press any key to continue.

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