

LAB 03 B.c - Code::Blocks 20.03

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

```
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 Search results Ccc CppCheck/Vera++ Build messages CppCheck/Vera++ messages Cscope Debugger DoxyBlocks Fortran info Closed files list Thread search

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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C:\Users\Admin\Desktop\1BM24CS164\LAB 03 B.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 37, Col 1, Pos 678 Insert Read/Write default 22°C Cloudy 12.04.12 PM 06-10-2025

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

```
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 void display() {
44     if (front == -1) {
45         printf("Circular Queue is Empty!\n");
46         return;
47     }
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 int main() {
62     int choice;
63
64     while (1) {
65         printf("\n--- Circular Queue Menu ---\n");
66 }
```

Logs & others

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

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

```
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 }
```

Logs & others

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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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"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 ---

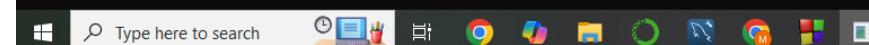
- 1. Insert
- 2. Delete
- 3. Display
- 4. Exit

Enter your choice: 4

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

Press any key to continue.

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22°C Cloudy 12.06.15 PM ENG 06-10-2025