

LAB 3 A.c - Code::Blocks 20.03

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

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

Logs & others

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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)) ===

Activate Windows  
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C:\Users\Admin\Desktop\1BM24CS164\LAB 3 A.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 62, Col 2, Pos 1328 Insert Read/Write default 22°C Cloudy 11.42.15 AM 06-10-2025

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

```
31     front = rear = -1; // reset queue
32
33
34 void display() {
35     if (front == -1) {
36         printf("Queue is Empty!\n");
37         return;
38     }
39
40     printf("Queue elements: ");
41     for (int i = front; i <= rear; i++)
42         printf("%d ", queue[i]);
43     printf("\n");
44 }
45
46 int main() {
47     int choice;
48     while (1) {
49         printf("\n Linear Queue Menu \n");
50         printf("1. Insert\n2. Delete\n3. Display\n4. Exit\n");
51         printf("Enter your choice: ");
52         scanf("%d", &choice);
53
54         switch (choice) {
55             case 1: insert(); break;
56             case 2: delete(); break;
57             case 3: display(); break;
58             case 4: return 0;
59             default: printf("Invalid Choice!\n");
60         }
61     }
62 }
63 }
```

Logs & others

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 3 A.c

C/C++ Windows (CR+LF) WINDOWS-1252 Line 62, Col 2, Pos 1328 Insert Read/Write default

22°C Cloudy 11.42.48 AM 06-10-2025

"C:\Users\Admin\Desktop\1BM24CS164\LAB 3 A.exe"

Linear Queue Menu  
1. Insert  
2. Delete  
3. Display  
4. Exit

Enter your choice: 2  
Queue Underflow!

Linear Queue Menu  
1. Insert  
2. Delete  
3. Display  
4. Exit  
Enter your choice: 1  
Enter element to insert: 5  
Inserted 5

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

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

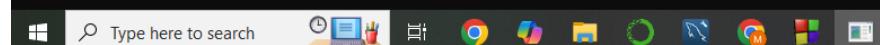
Linear Queue Menu  
1. Insert  
2. Delete  
3. Display  
4. Exit  
Enter your choice: 1  
Enter element to insert: 8  
Inserted 8

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

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

Linear Queue Menu

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"C:\Users\Admin\Desktop\1BM24CS164\LAB 3 A.exe"

```
Linear Queue Menu
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 10
Invalid Choice!
```

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

```
Linear Queue Menu
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 10
Invalid Choice!
```

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

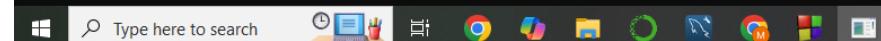
```
Linear Queue Menu
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 2
Deleted 5
```

```
Linear Queue Menu
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 3
Queue elements: 6 7 8 9
```

```
Linear Queue Menu
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 4
```

Process returned 0 (0x0) execution time : 106.804 s  
Press any key to continue.

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