

3b. Circular Queue

```
C:\Users\aruna\Desktop\1BM24CS056> gcc Circular_q.c -o Circular_q.exe
C:\Users\aruna\Desktop\1BM24CS056>Circular_q.exe
--- Circular Queue Operations ---
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 3
Queue is Empty.

--- Circular Queue Operations ---
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 1
Enter the value to insert: 1
1 inserted into queue.

--- Circular Queue Operations ---
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 1
Enter the value to insert: 2
2 inserted into queue.

--- Circular Queue Operations ---
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 1
Enter the value to insert: 3
3 inserted into queue.
```

```
--- Circular Queue Operations ---
```

```
1. Insert
```

```
2. Delete
```

```
3. Display
```

```
4. Exit
```

```
Enter your choice: 1
```

```
Enter the value to insert: 4
```

```
4 inserted into queue.
```

```
--- Circular Queue Operations ---
```

```
1. Insert
```

```
2. Delete
```

```
3. Display
```

```
4. Exit
```

```
Enter your choice: 1
```

```
Enter the value to insert: 5
```

```
5 inserted into queue.
```

```
--- Circular Queue Operations ---
```

```
1. Insert
```

```
2. Delete
```

```
3. Display
```

```
4. Exit
```

```
Enter your choice: 1
```

```
Queue Overflow! Cannot insert element.
```

```
--- Circular Queue Operations ---
```

```
1. Insert
```

```
2. Delete
```

```
3. Display
```

```
4. Exit
```

```
Enter your choice: 3
```

```
Queue elements are:
```

```
1 2 3 4 5
```

```
--- Circular Queue Operations ---
```

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

```
Enter your choice: 2
```

```
1 deleted from queue.
```

```
--- Circular Queue Operations ---
```

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

```
Enter your choice: 2
```

```
2 deleted from queue.
```

```
--- Circular Queue Operations ---
```

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

```
Enter your choice: 3
```

```
Queue elements are:
```

```
3 4 5
```

```
--- Circular Queue Operations ---
```

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

```
Enter your choice: 1
```

```
Enter the value to insert: 6
```

```
6 inserted into queue.
```

```
--- Circular Queue Operations ---
```

```
1. Insert
```

```
2. Delete
```

```
3. Display
```

```
4. Exit
```

```
Enter your choice: 1
```

```
Enter the value to insert: 7
```

```
7 inserted into queue.
```

```
--- Circular Queue Operations ---
```

```
1. Insert
```

```
2. Delete
```

```
3. Display
```

```
4. Exit
```

```
Enter your choice: 3
```

```
Queue elements are:
```

```
3 4 5 6 7
```

```
--- Circular Queue Operations ---
```

```
1. Insert
```

```
2. Delete
```

```
3. Display
```

```
4. Exit
```

```
Enter your choice: 4
```

```
Exiting program.
```

```
C:\Users\aruna\Desktop\1BM24CS056>
```