

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>