```c
#include <stdio.h>
#define MAX 5

int queue[MAX];
int front = -1, rear = -1;

void insert(int x) {

    if ((front == 0 && rear == MAX - 1) || (rear + 1) % MAX == front) {
        printf("Queue Overflow! Cannot insert %d\n", x);
        return;
    }
    if (front == -1) {
        front = rear = 0;
    } else {
        rear = (rear + 1) % MAX;
    }

    queue[rear] = x;
    printf("%d inserted successfully.\n", x);
}
void dequeue() {
    if (front == -1) {
        printf("Queue Underflow! Queue is empty.\n");
        return;
    }

    printf("Deleted element: %d\n", queue[front]);
    if (front == rear) {
        front = rear = -1;
    } else {
        front = (front + 1) % MAX;
    }
}
```

```c
void display() {
    if (front == -1) {
        printf("Queue is Empty.\n");
        return;
    }

    printf("Circular Queue: ");
    int i = front;

    while (1) {
        printf("%d ", queue[i]);
        if (i == rear)
            break;
        i = (i + 1) % MAX;
    }

    printf("\n");
}

int main() {
    int choice, value;

    while (1) {
        printf("\n--- Circular Queue Menu ---\n");
        printf("1. Insert\n");
        printf("2. Delete\n");
        printf("3. Display\n");
        printf("4. Exit\n");
        printf("Enter your choice: ");
        scanf("%d", &choice);
```

```c
        scanf("%d", &choice);

        switch (choice) {
            case 1:
                printf("Enter value to insert: ");
                scanf("%d", &value);
                insert(value);
                break;

            case 2:
                dequeue();
                break;

            case 3:
                display();
                break;

            case 4:
                return 0;

            default:
                printf("Invalid choice! Please try again.\n");
        }
    }

    return 0;
}
```

```
--- Circular Queue Menu ---
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 1
Enter value to insert: 4
4 inserted successfully.

--- Circular Queue Menu ---
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 1
Enter value to insert: 6
6 inserted successfully.

--- Circular Queue Menu ---
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 1
Enter value to insert: 8
8 inserted successfully.

--- Circular Queue Menu ---
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 2
Deleted element: 4

--- Circular Queue Menu ---
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 3
Circular Queue: 6 8

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