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#include <stdio.h>
#define MAX 5
int queue[MAX];
int front = -1, rear = -1;
void enqueue(int value) {
    if (rear == MAX - 1) {
        printf("\nQueue Overflow! Cannot insert %d\n", value);
    } else {
        if (front == -1) front = 0;
        queue[++rear] = value;
        printf("\n%d inserted into queue\n", value);
    }
}
void dequeue() {
    if (front == -1 || front > rear) {
        printf("\nQueue Underflow! Cannot delete\n");
    } else {
        printf("\n%d deleted from queue\n", queue[front]);
        front++;
    }
}
void display() {
    if (front == -1 || front > rear) {
        printf("\nQueue is empty\n");
    } else {
        printf("\nQueue elements are: ");
        for (int i = front; i <= rear; i++) {
```

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            printf("%d ", queue[i]);
        }
        printf("\n");
    }
}
int main() {
    int choice, value;
    while (1) {
        printf("\n--- Queue Operations ---\n");
        printf("1. Enqueue\n2. Dequeue\n3. Display\n4. Exit\n");
        printf("Enter your choice: ");
        scanf("%d", &choice);
        switch (choice) {
            case 1:
                printf("Enter value to insert: ");
                scanf("%d", &value);
                enqueue(value);
                break;
            case 2:
                dequeue();
                break;
            case 3:
                display();
                break;
            case 4:
                return 0;
            default:
```

```
            printf("\nInvalid choice! Try again.\n");
        }
    }
}
```

Output: