```c
#include <stdio.h>
#include <stdlib.h>
#define SIZE 10000


void enqueue(int n, int arr[], int *rear);
int dequeue(int arr[], int *front, int *rear);
void display(int arr[], int front, int rear);

int main() {
    int arr[SIZE];
    int front = 0;
    int rear = 0;


    enqueue(5, arr, &rear);
    enqueue(10, arr, &rear);
    display(arr, front, rear);
    printf("Dequeued: %d\n", dequeue(arr, &front, &rear));
    display(arr, front, rear);

    return 0;
}

void enqueue(int n, int arr[],int *rear) {
    if (*rear == SIZE) {
        printf("Queue is full\n");
    } else {
        printf("Enter element to enqueue: ");
        scanf("%d", &n);
        arr[*rear] = n;
        (*rear)++;
    }
}

int dequeue(int arr[], int *front, int *rear) {
    if (*front == *rear) {
        printf("Queue is empty\n");
        return -1;
    } else {
        int m = arr[*front];
        (*front)++;
```

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        return m;
    }
}

void display(int arr[], int front, int rear) {
    if (front == rear) {
        printf("Queue is empty\n");
    } else {
        printf("Queue elements: ");
        for (int i = front; i < rear; i++) {
            printf("%d ", arr[i]);
        }
        printf("\n");
    }
}
```

```
e } ; if ($?) { .\tempCodeRunnerFile }
Enter element to enqueue: 5
Enter element to enqueue: 6
Enter element to enqueue: 2
Queue is full
Queue elements: 5 6 2
Dequeued: 5
Dequeued: 6
Dequeued: 2
Queue is empty
PS C:\Users\bmsce\Desktop\1BM23CS302>
```