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#include <stdio.h>
#include<stdlib.h>
#define MAX 50
void insert();
void delete();
void display();
int queue_array[MAX];
int rear = - 1;
int front = - 1;
int main()
{
    int choice;
    while (1)
    {
        printf("1.Insert element to queue n");
        printf("2.Delete element from queue n");
        printf("3.Display all elements of queue n");
        printf("4.Quit n");
        printf("Enter your choice : ");
        scanf("%d", &choice);
        switch(choice)
        {
            case 1:
                insert();
                break;
            case 2:
                delete();
                break;
            case 3:
                display();
                break;
            case 4:
                exit(1);
            default:
                printf("Wrong choice n");
        }
    }
}

void insert()
{
    int item;
    if(rear == MAX - 1)
        printf("Queue Overflow n");
    else

```

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{
if(front== - 1)
front = 0;
printf("Inset the element in queue : ");
scanf("%d", &item);
rear = rear + 1;
queue_array[rear] = item;
}
}
void delete()
{
if(front == - 1 || front > rear)
{
printf("Queue Underflow n");
return;
}
else
{
printf("Element deleted from queue is : %dn", queue_array[front]);
front = front + 1;
}
}
void display()
{
int i;
if(front == - 1)
printf("Queue is empty n");
else
{
printf("Queue is : n");
for(i = front; i <= rear; i++)
printf("%d ", queue_array[i]);
printf("n");
}
}
}

```