```c
#include <stdio.h>
#define Man 3
int cqueue_arr[Man];
int front = -1
int rear = -1;
void insert (int item)
{
    if ((front == 0 && rear == Man-1) ||
            ((front == rear +1))
    {
        printf ("Queue Overflow \n");
        return ;
    }
    if (front == -1)
    {
        front = 0;
        rear = 0;
    }
    else
    {
        if (rear == Man-1)
            rear = 0;
        else
            rear = rear +1;
    }
    cqueue_arr[rear] = item;
}
void del ()
{
    if (front == -1)
    {
        printf (" Queue Underflow \n");
        return ;
    }
    printf (" Element deleted from queue is =
                    %d\n", cqueue_arr[front]);
```

```c
if (front == rear)
{
    front = -1;
    rear = -1;
}
else
{
    if (front == Man-1)
        front = 0;
    else
        front = front + 1;
}

void display ()
{
    int front_pos = front, rear_pos = rear;
    if (front == -1)
    {
        printf("Queue is empty \n"); return;
    }
    printf("Queue elements : \n");
    if (front_pos <= rear_pos)
        while (front_pos <= rear_pos)
        {
            printf("%d", queue_arr [front_pos]);
            front_pos++;
        }
    else
    {
        while (front_pos <= Man-1)
        {
            printf("%d", queue arr[front_pos]);
            front_pos++
        }
        front_pos = 0;
```

```c
    while (front_pos <= rear_pos)
    {
        printf("%d", queue_arr[front_pos]);
        front_pos++;
    }
}
printf("\n");
}

int main()
{
    int choice, item;
    do {
        printf("1. Insert\n");
        printf("2. Delete\n");
        printf("3. Display\n");
        printf("4. Quit\n");
        printf("Enter your choice: ");
        scanf("%d", &choice);
        switch (choice)
        {
            case 1:
                printf("Input the element for
                        insertion in queue: ");
                scanf("%d", &item);
                insert(item);
                break;
            case 2:
                del()
                break;
            case 3:
                display();
                break;
            case 4:
                break;
            default:
```

```c
        printf("wrong choice\n");
    }
    while(choice != 4);
    return 0;
}
```