

```

class que{
    int MAX=5;
    int []list=new int[MAX];
    int front=-1;
    int rear=-1;
    boolean isFull()
    {
        if(rear==MAX-1)
            return true;
        else
            return false;
    }
    boolean isEmpty()
    {
        if(rear==-1 && front==-1)
            return true;
        else
            return false;
    }
    void enq(int item) throws Exception
    {
        if(isFull())
            throw new Exception("Q is Full");
        else if(front==-1&&rear==-1)
        {
            front=0;
            rear=0;
        }
        else
        {
            rear=rear+1;
        }
        list[rear]=item;
    }
    void deq() throws Exception
    {
        if(isEmpty())
            throw new Exception("Q is Empty");
        else if(front==rear)
        {
            System.out.println("Removed Element is "+list[front]);
            front=-1;
            rear=-1;
        }
        else{
            int x=list[front];
            front++;
            System.out.println("Removed Element is "+x);
        }
    }
    void dis() throws Exception

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    {
        if(isEmpty())
            throw new Exception("Q is Empty");
        else
            for(int i=front;i<=rear;i++)
                System.out.println(list[i]);
    }
    void peep()
    {
        System.out.println("Front element is "+list[front]);
    }
    public static void main(String []Args)
    {
        que q=new que();
        try{
            q.enq(11);
            q.enq(22);
            q.enq(33);
            q.deq();
            q.deq();
            q.deq();
            q.dis();
        }catch(Exception e)
        {
            System.out.println(e.getMessage());
        }
    }
}

```