

19-10-2020

## LAB - 5

A Create a queue of size MAX

front and rear  $\rightarrow -1$

Enqueue(x)

{

if (front == (rear + 1) % N)

"Q is Full"

else

{

if (front == -1 && rear == -1)

front  $\rightarrow 0$  & rear

else

rear = (rear + 1) % N

A[rear] = x

}

}

Dequeue

{

if (front == -1 && rear == -1)

"Q is Empty"

else

{

if (front == rear)

{

x = A[front]

front  $\rightarrow$  rear  $\rightarrow -1$

}

else

```

x → A[front]
front ← (front + 1) % N
}
return x

```

```

Display()
{

```

```

    if (front == -1)
        "Empty Queue"
    else

```

```

    {
        for (i = front; i != rear; i = (i + 1) % MAX)
        {
            print "Q[i]"
        }
    }
}

```

```

}

```