

IBMIACE 191

LAB-5Circular Queue Implementation

Q

Ans Create Q of size MAX
front $\rightarrow -1$
rear $\rightarrow -1$

Enqueue(x){

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

"Q is Full"

else

{

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

front $\rightarrow 0$ rear $\rightarrow 0$

else

rear = (rear + 1) % N

A[x]

A[rear] = x.

}

}

Dequeue ()

{

if (front == -1 && rear == -1)
 "Q is Empty"

else

{

if (front == rear)

{

x = A[front]

front → rear → -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]"

}

}

}