

Pseudo Code

Date

No.

Circular Queue

A[SIZE]

FRONT = -1

REAR = -1

isFull()

{

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

return True

else

return False

}

IsEmpty()

{

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

return True

else

return False

}

Enqueue(x)

{

if (isFull())

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```
    printf ("Q is full")
else if (Is Empty ())
    front <- rear + 1
else
    rear <- (rear + 1) % N
```

```
    A[rear] = x
}
```

Dequeue()

{

```
    if (Is Empty ())
        printf ("Q is Empty")
    else if (front == rear)
        x <- A[front]
        front <- rear <- 1
```

```
    else
```

{

```
        x <- A[front]
        front <- (front + 1) % N
    }
```

```
    return x
```

}