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3D

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LAB-5

Circular Queue Implementation

Pseudocode

```
A[SIZE]
FRONT = -1
REAR = -1

IsFull()
{
  if (front == (rear+1) %.N)
     return True
  else
     return False
}

Is Empty()
{
  if (front == -1 && rear == -1)
     return True
  else
     return False
}
```

Date:

```
Enqueue(x)
{
{ if (!IsFull())
    Printf ("Q is Full")
  else if ( Is Empty())
      front ← rear ← 0

   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
}
```