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1BM19CS165
D-1
3D

Pseudocode for circular queue

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

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

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

```
Enqueue (X)
{
 if (IsFull())
   Print ("Q is Full")
 else if (IsEmpty())
    front <- rear <-0
 else
   rear <- (rear+1) % N

   A [rear] = X
}

 Dequeue()
{
 if(IsEmpty())
    printf ("Q is Empty")
    else if (front == rear)
      X <- A [front]
      front <- rear <--1
   else
     { X <- A [front]
     front <- (front + 1) % N
     }
   return X
}
```