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IBM19CS172

WAP to implement a circular Queue.

```
IsEmpty()
{
  if (front == -1 && rear == -1)
    return true
  else
    return false
}

IsFull()
{
    if (front == (rear + 1) % size)
    else
      return False
}

Enqueue (x)
{
    if (IsFull())
    print ("Queue is Full")

  else if (IsEmpty())
      front ← rear ← 0

  else
      rear ← (rear + 1) % size
        A[rear] = x
}

Dequeue ()
{
      if (IsEmpty())
      print ("Q is Empty")
```

```
else if (front == rear)
        x ← A[front]
        front ← rear ← -1

else
    {
        x ← A[front]
        front ← (front +) % N
    }
    return X
}
```