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Circular Queue

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

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

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

Enqueue (x)
{   if ( IsFull ())
    printf (" 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)
        front ← rear ← -1
```

```
else
    { x ← A[front]
      front ← (front + 1) % N
    }
return x
}
```