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QUEUE Implementation

Pseudocode:

```
A[SIZE]
Front ⇐ -1
Rear ⇐ -1

Is Full()
{
  if (rear == SIZE - 1)
     return TRUE
  else
    return FALSE
}

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

Teacher's Sign.....

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

 else
   rear ← rear + 1

 A [rear] = x

}
  Dequeue ()
{

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

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```
x ← A[front]
front ← front + 1
}
return x
}
```