Lab - 4 Queue Implementation

Pseudo code

```
A[SIZE]
Front <- 1
Rear <- 1

isfull()
{
if (rear == size - 1)
   return true
else
   return false
}

isEmpty()
{
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
   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
  }
 return x
}
```