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
}
```

```
display()
{
  if (isEmpty())
      print ("Queue is empty");

  else
     for (int i = font ; i <= rear ; i++)
          print (A[i]);

}
```