Yashwanth Kiran .S
1BM19CS187

Date: 12/10/2020

LAB - 3

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
}
```

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

  return x
}
```