12-10-20

Week 3 → implementation of queue using array

pseudo-code

```
int A[size]
front = -1
rear = -1

Enqueue (x)
{
  if (IsFull ())
     print ("Que is Full")
  else if (IsEmpty ())
     {
        front ← read ← 0
     }
  else
     {
       rear ← rear + 1
     }
       A[rear] ← x
}
  Dequeue ()
{
    if (IsEmpty ())
    printf ("Queue is empty")
  else if (front == rear)
        {
          front ← read ← -1
        }

  else
```

```
{
  front <- front + 1
}
}
  IsFull()
  {
    if (rear == size(a)-1)
      return =True
    else
      return False
  }
    IsEmpty()
  {
    if (front == -1 && rear == -1)
      return True
    else
      return false
  }
```