LAB 4

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D1 Batch

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Implementation of Queue

```
A[size]
front = -1
rear = -1
Isfull()
{
 if (rear == size-1)
   true;
 else
 false;
 }
 Enqueue (x)
 {
  if (Isfull())
  Print queue is full
 else if (IsEmpty())
 front = rear = 0
 else
 {
  rear = rear+1;
 }
  A[rear] = x;
 }
Is Empty {
  if (front == -1 && rear == -1)
    true;
   else
```

```
false;
}
Dequeue()
{
if (IsEmpty())
  Print Q is empty
else if (front == rear)
{
  x = A[front]
    front = rear = -1
}
else
{
  x = A[front];
    front = front + 1
}
return x
}
display()
{
if (front == -1)
  Print queue is empty
  else
{
    for(i=front; i<=rear; i++)
    Printf("%d", A[i]);
}
}
```