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## Lab 5 : Circular Queue

```
isEmpty() {
    if (front == -1 && rear == -1)
        return True;
    else
        return False;
}
```

```
int A[SIZE];
front ← -1;
rear ← -1;
```

```
isFull() {
    if ((rear+1) % N == front)
        return True;
    else
        return False;
}
```

```
Enqueue(x)
{
    if (isFull())
        printf("Queue overflow \n");
    else if (isEmpty())
    {
        front ← rear ← 0;
    }
    else
    {
        rear ← (rear+1) % N;
    }
    A[rear] ← x;
}
```

Dequeue()

```
{  
    if (isEmpty())  
        printf("Queue is Empty \n");  
    else if (front == rear)  
    {  
        front ← rear ← -1  
    }  
    else  
    {  
        front ← (front + 1) % N  
    }  
}
```