

19/10/2020

Q) WAP to show implementation of circular queue.

Ans: `int A[SIZE]`

`front ← -1`

`rear ← -1`

`IsEmpty()`

`{ if (front == -1 && rear == -1)`

`return True`

`else`

`return False`

`}`

`IsFull()`

`{ if ((rear+1)%N == front)`

`return True`

`else`

`return False`

`}`

`Enqueue()`

`{ if (IsFull())`

`printf("Queue is Full")`

`else if (IsEmpty())`

`{ front ← rear ← 0`

`}`

`else`

`{ rear ← (rear+1)%N`

`}`

`A[rear] ← x`

`}`

Dequeue()

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

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