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URBAN EDGE

CIRCULAR QUEUE

Pseudocode:

```
A[SIZE]
FRONT = +1
REAR = -1

Is Full()
{

if (front == (rear + 1) % N)
return True
else
return False
}

Is Empty()
{

if (front == -1 && rear == -1)
return True
else
return False
}

Enqueue (x)
{
if (Is Full())
Printf ("Q is full")
else if (Is Empty())
front <- rear <- 0
```

```
else
rear <- (rear+1) % N
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) % N
}
return x
}
```