Linear queue - First In First Out

28 October 2023 17:26

Rear

[-1]	[0]	[1]	[2]	[3]	[4]

Front

Front end : pop (dequeue)
Rear end : push (enqueue)

Push (enqueue) :

1) Increment the rear by 1
2) Insert the element at the rear position
3) If(front == -1) front = 0;

Pop(dequeue) :

1) Arr[front] = 0
2) Increment the front by 1

Queue full condition : rear == size-1
Queue empty condition : rear == -1 || front > rear

Always check if the queue is full before inserting the element
Always check if the queue is empty before deleting the element