

Queue → FIFO

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You cannot reuse the memory space

Arr[5]

[-1]	[0]	[1]	[2]	[3]	[4]
	100	20	300	40	50

Front

Rear

front

Rear

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