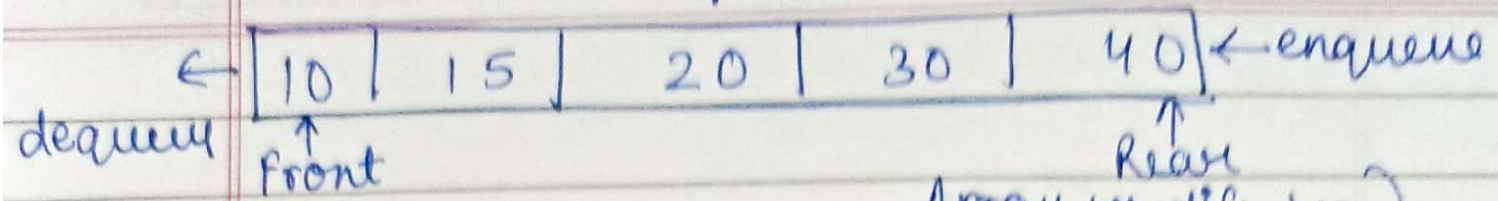


# Queue Data Structure (First In first Out)



- Array (Modification)

q.enqueue(10)

q.enqueue(20)

q.enqueue(30)

q.enqueue(40)

10				
10	20			
10	20	30		
10	20	30	40	
20	30	40		
30	40			

10 ← print(q.dequeue)

20 ← print(q.dequeue)

30 ← " (q.getFront)

40 ← " (q.getRear)

Applications (i) Single Resource Multiple consumer

(ii) Synchronization b/w slow & fast devices.

(iii) In OS, in computer Networks.

(iv) Variations → dequeue, priority Queue & Doubly Ended Priority Queue.