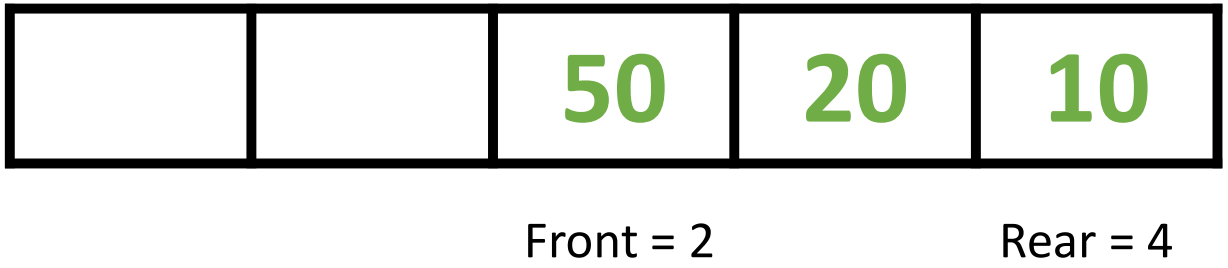
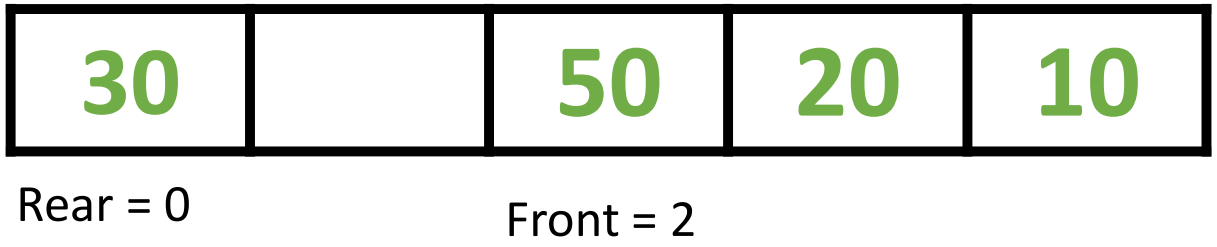
Double Ended Queue with fixed size 5

Here I am considering Front at 2nd position and Rear at 3rd position

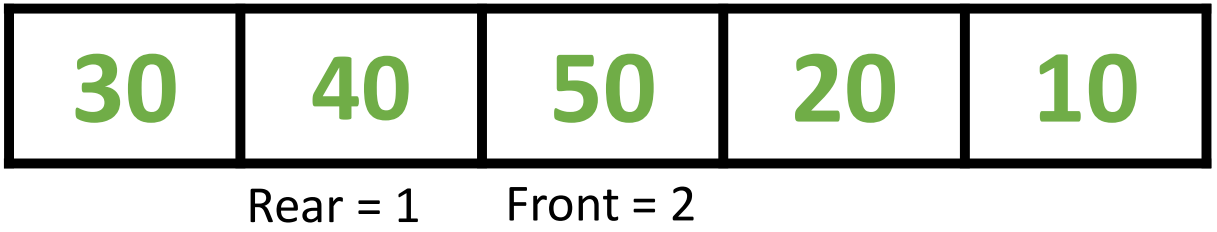
Enqueue_At_Rear(10)



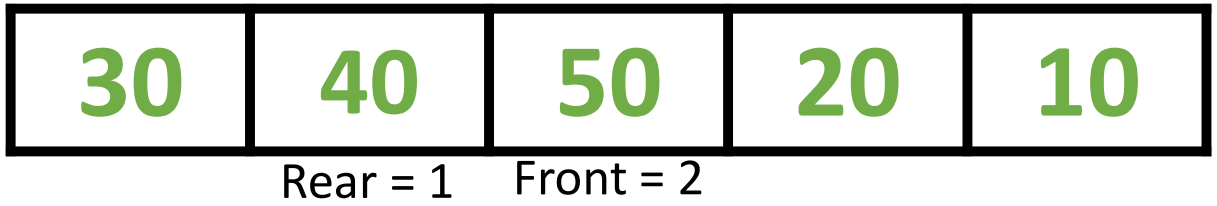
Enqueue_At_Rear(30)



Enqueue_At_Rear(40)

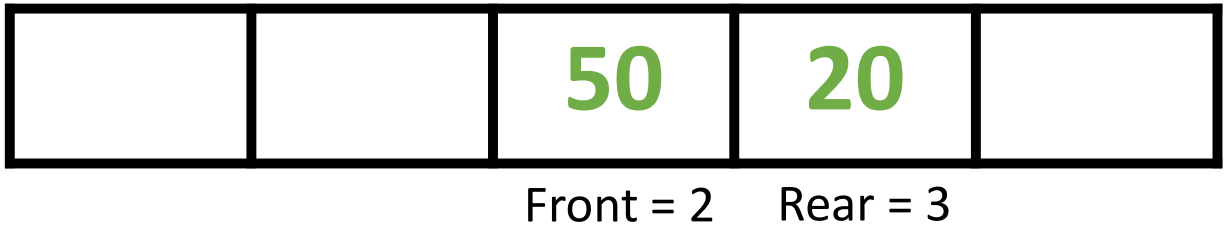


Enqueue_At_Rear(100)



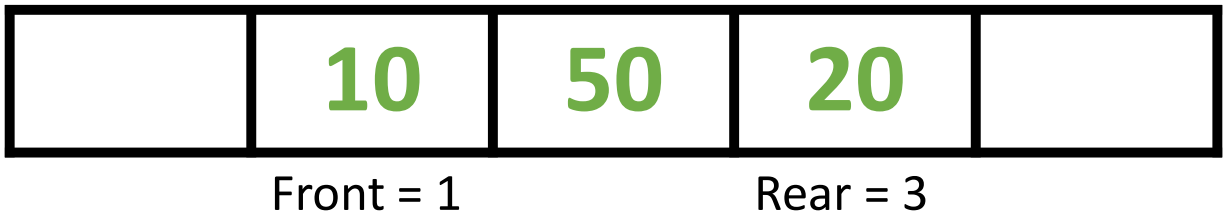
Prints **queue is full** as rear reached the position before the front. So, we can't insert another element

Double Ended Queue with fixed size 5



Here I am considering Front at 2nd position and Rear at 3rd position

Enqueue_At_Front(10)



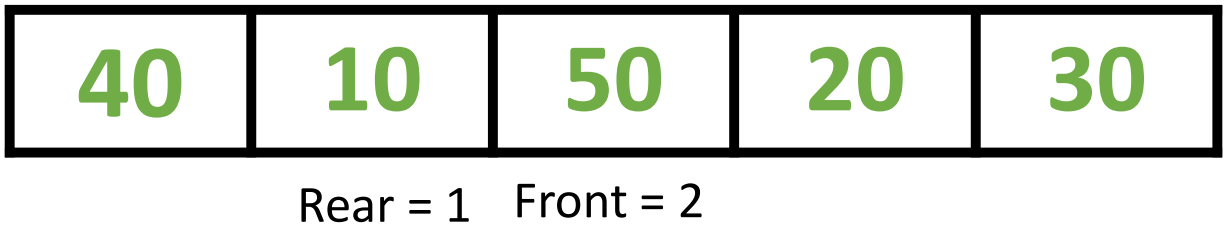
Enqueue_At_Front(40)

Enqueue_At_Front(30)

Enqueue_At_Front(60)

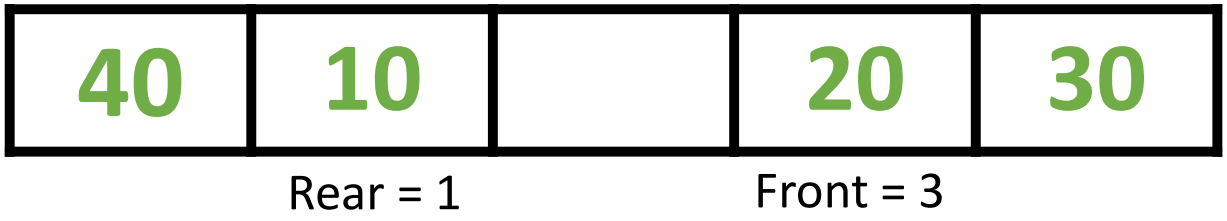
Prints **queue is full** as front reached the position after the rear. So, we can't insert another element

Double Ended Queue with fixed size 5

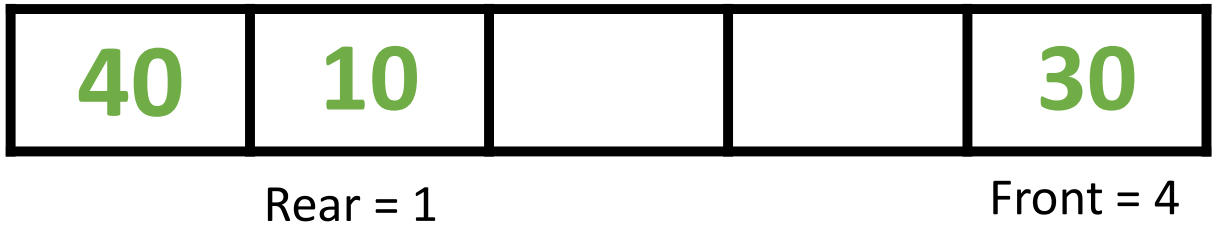


Here I am considering Front at 2nd position and Rear at 1st position

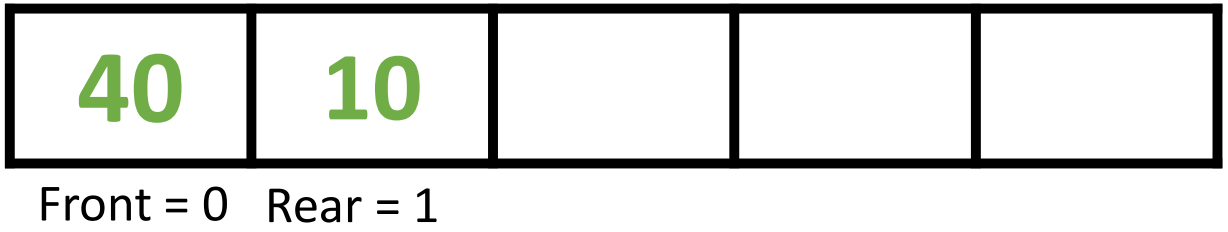
Dequeue_At_Front()



Dequeue_At_Front()



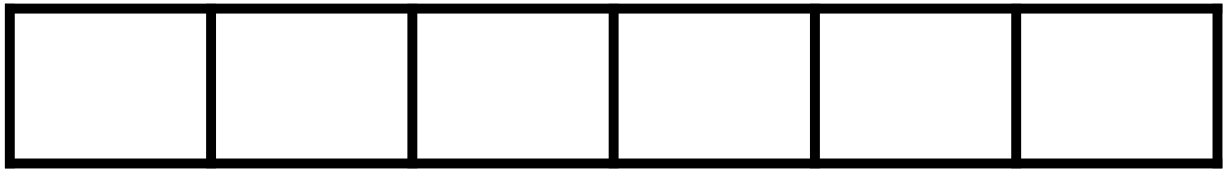
Dequeue_At_Front()



Dequeue_At_Front()

Rear = 1
Front = 1

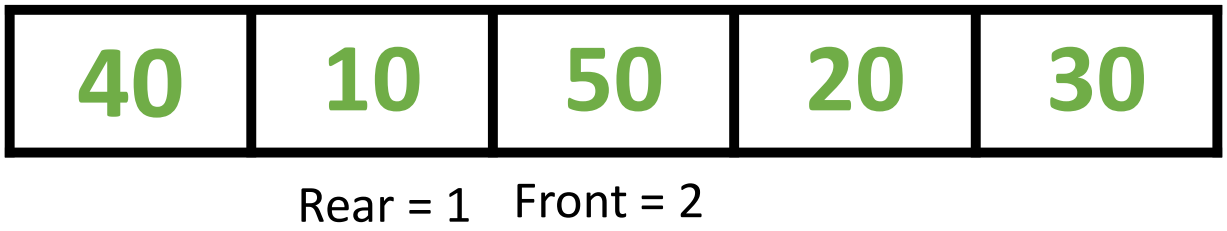
Dequeue_At_Front()



Front = -1
Rear = -1

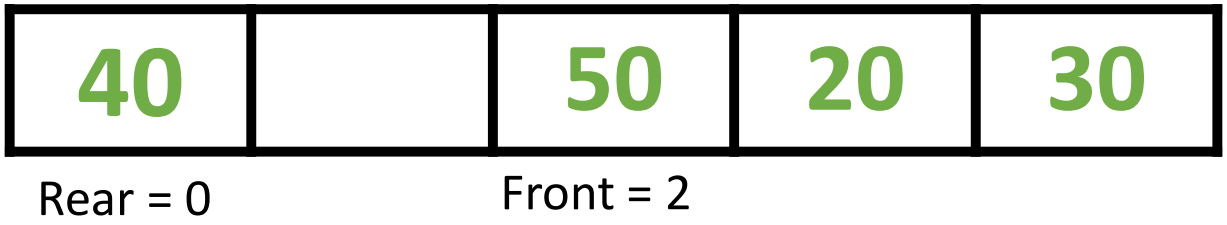
It prints **queue is empty** since there are no elements to delete

Double Ended Queue with fixed size 5

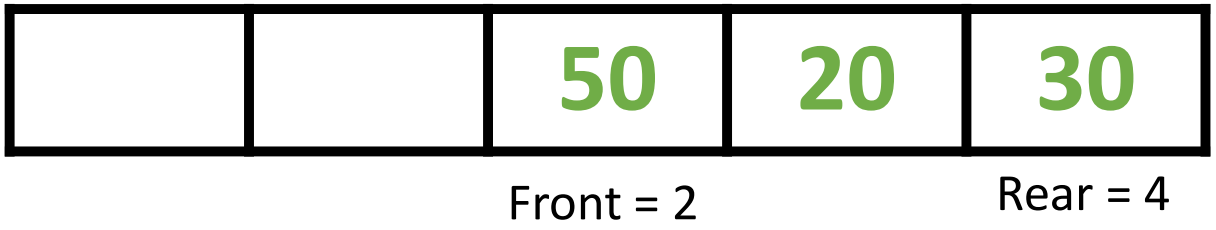


Here I am considering Front at 2nd position and Rear at 1st position

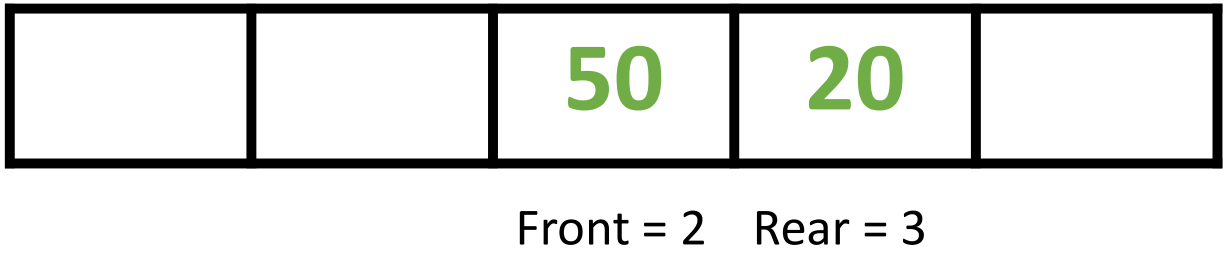
Dequeue_At_Rear()



Dequeue_At_Rear()



Dequeue_At_Rear()



Dequeue_At_Rear()

Front = 2

Rear = 2

Dequeue_At_Rear()

Front = -1

Rear = -1

It prints **queue is empty** since there are no elements to delete