Insert and Delete element in Linked List

Head

x Head

None

New-node = Node (value)

new-node. next = head

return new-node
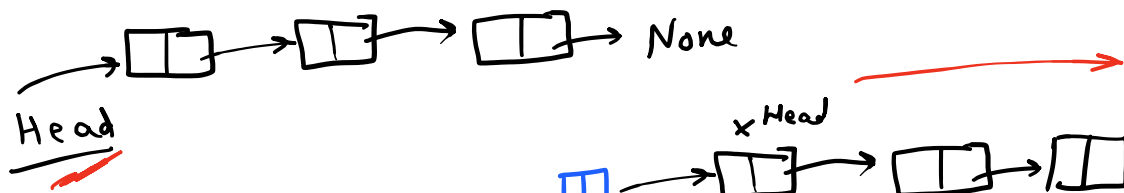
Head =

O(1) ① At start ⟶ Head

O(n) ② At end

O(n) ③ At a position

Head
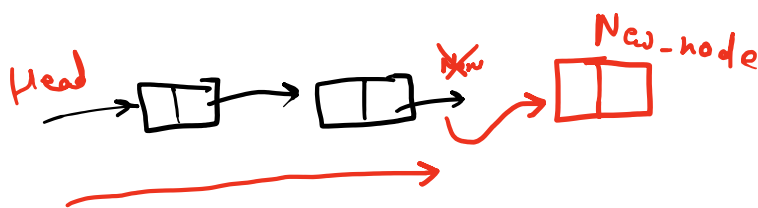
New-node

Add / Insert a node at specific position

1   2   4   5

new node

3

Head

Current   Next

current

New node

new node. next = current. next
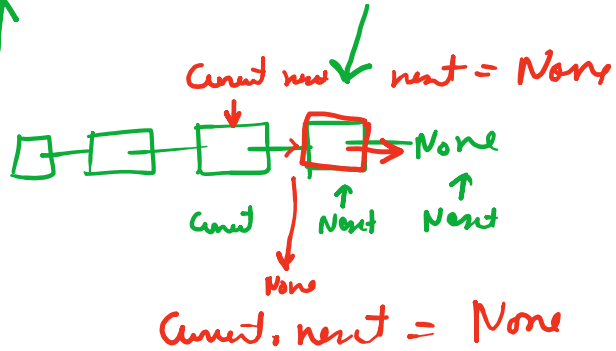
newsroom.

→ Deletion in L.L.

Now
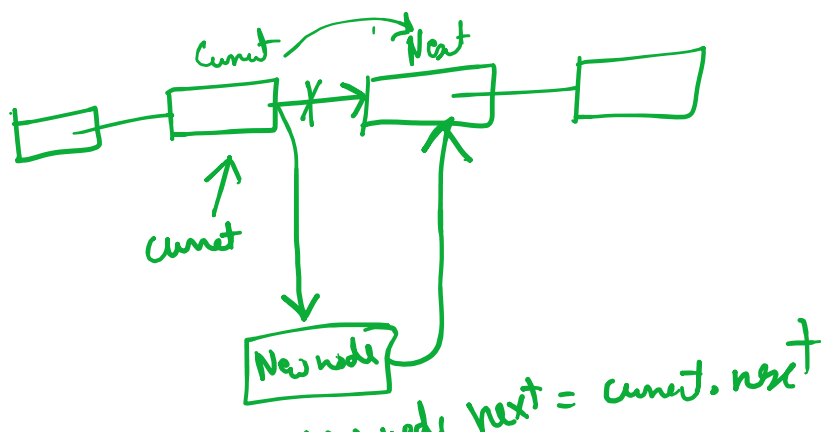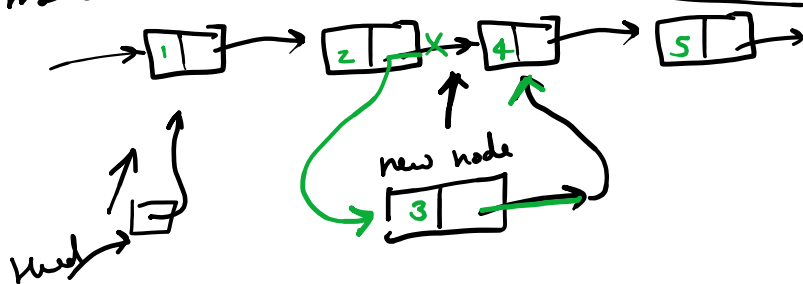
$O(1)$ ① At start
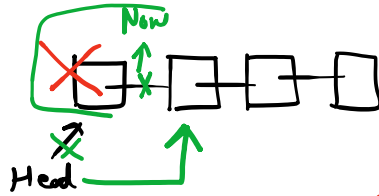
$O(n)$ ② At end

$O(n)$ ③ At particular value

Cunt new next = None

Cunt   Next   Next

Now

Cunet, next = None

curt   None

cunt.next = cunt.next.next

Cunt.next = None
.next