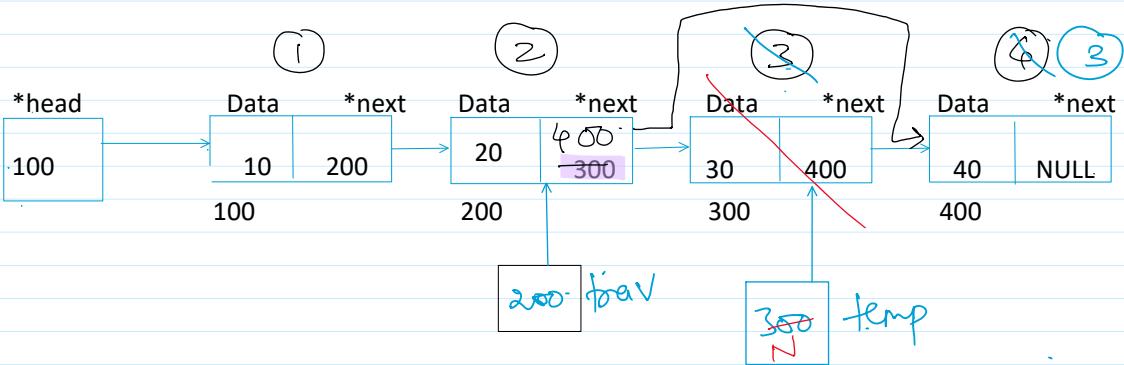


delete\_at\_pos(int pos);

- 1) If (head == NULL) // list is empty  
Printf("List is Empty");
- 2) Pos == 1  
Delete\_first(); ✓
- 3) Pos == count\_nodes()  
delete\_last()
- 4) Pos < 1 || pos > count\_nodes() → printf(" Invalid ");  
6

pos = 3.



- 1) Traverse till pos-1 node.  
Struct node \*trav = head;

```
For(int i=1; i<pos-1; i++)
    Trav = trav->next;
```

200->next = 400  
trav->next = 300->400  
trav->next = temp->next

- 2) Take a backup of the pos node(3rd node)

In a temp pointer.

```
Struct node *temp = trav->next;
```

Best case : if pos is 1 : O(1)

Worst case : if pos == count : O(n)

Avg : O(n)

- 3) Link the pos-1 node(2nd) to pos+1 node(4th)

```
Trav->next = temp->next;
```

- 4) Free the temp node.

```
Free(temp);
Temp = NULL;
```