

delete_at_pos(int pos);

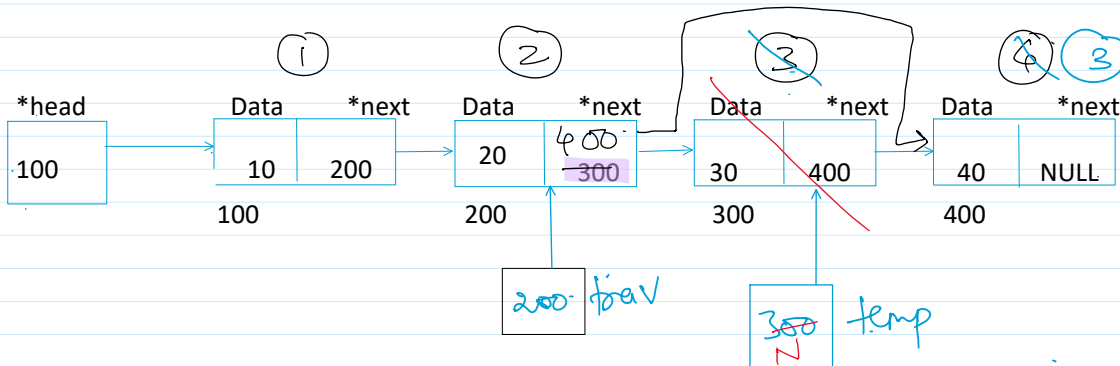
1) If (head == NULL) // list is empty
Printf("List is Empty ");

2) Pos == 1
Delete_first(); ✓

3) Pos == count_nodes()
delete_last()

4) Pos < 1 || pos > count_nodes() → printf("Invalid");

pos = 3.



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

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

2) Take a backup of the pos node(3rd node)
In a temp pointer.
Struct node *temp = trav->next;

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;

- 200 → next = 400
trav → next = 300 → 400;
trav → next = temp → next;

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

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

Avg : O(n)