head → 10 → 20 → 30 → 40 → 50

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addat_pos(data, pos);
(50, 6)

If List is empty

```
if(head == NULL)
{
    if(pos == 1)
        add_first();
    Else
        printf(" Invalid pos number");
```

If pos == 1
add_first()

If pos == count+1
6 == 5+1
add_last()

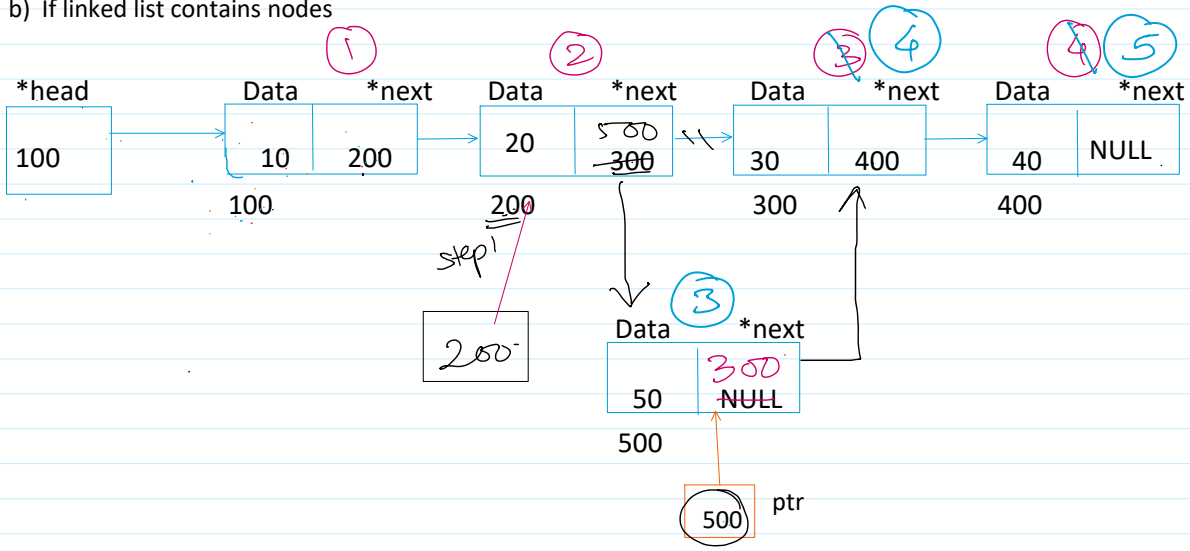
If pos < 1 or pos > count+1
<1 9 > 5+1 → printf("Invalid pos number");

---

1) Create a node
2) update the data part
3) attach.

addnode(50, 3);

b) If linked list contains nodes



1) Traverse and stop the trav pointer at pos-1 node.
   Struct node *trav = head;

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

2) Update the next pointer of the new node to point to the current position node
   Ptr->next = trav->next;

3) Update the pos-1 node to point to the new node.
   Trav->next = ptr;