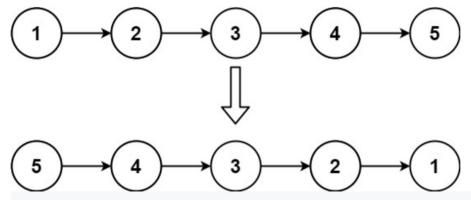
## Reverse a linked list

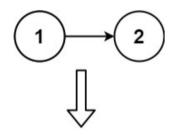
Given the head of a singly linked list, reverse the list, and return the reversed list.

## Example 1:

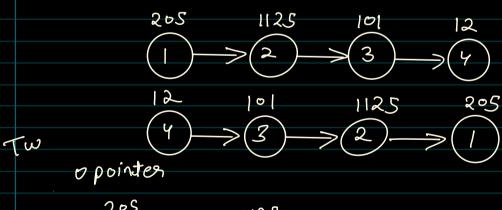


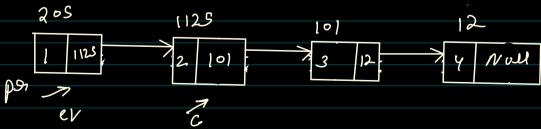
Input: head = [1,2,3,4,5]
Output: [5,4,3,2,1]

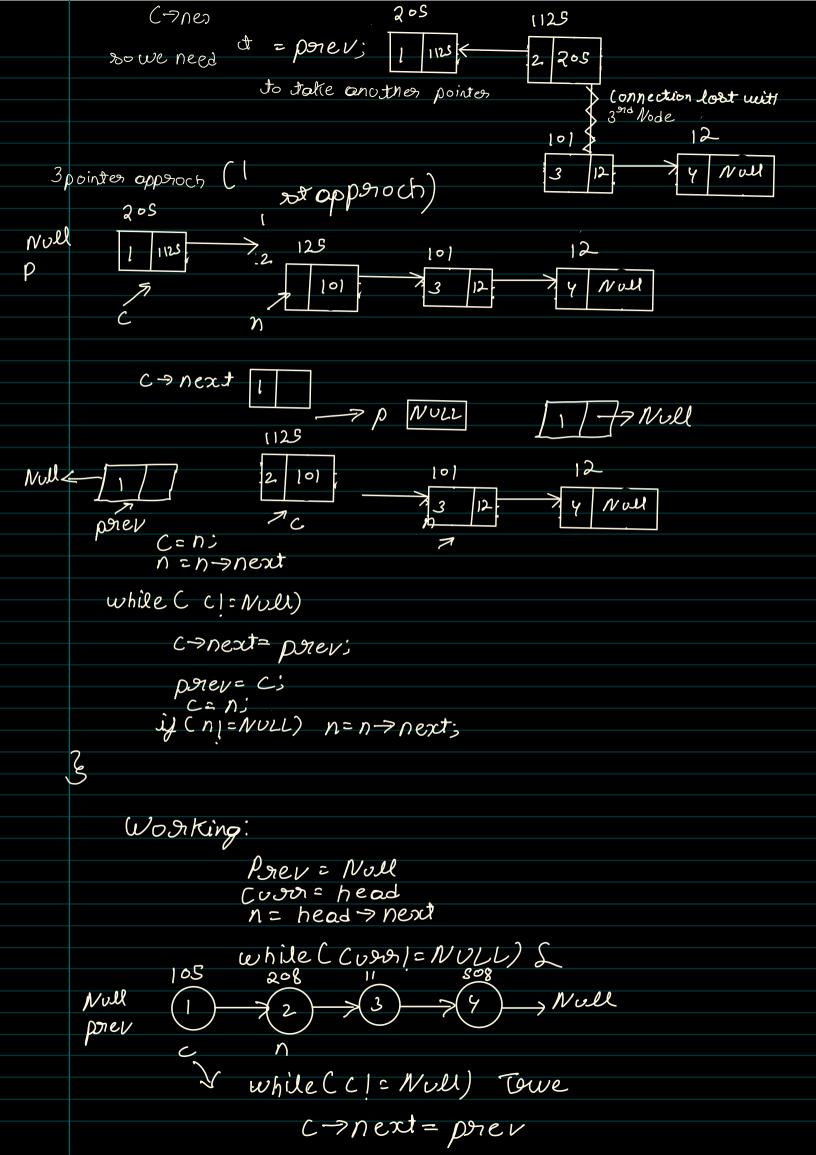
## Example 2:

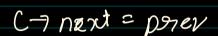


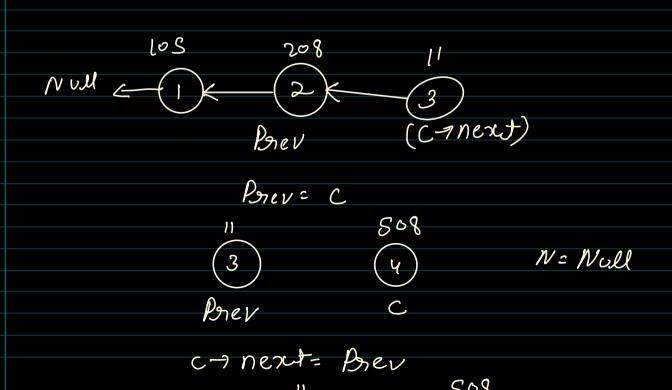
In Reversing the linked we have to never se the Node not the dota i.e

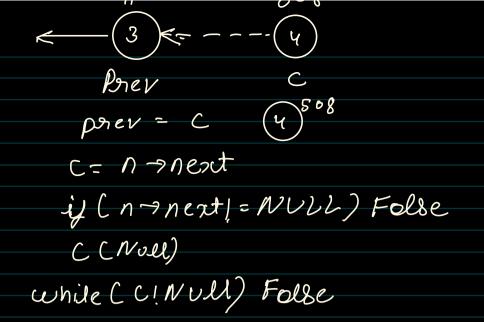


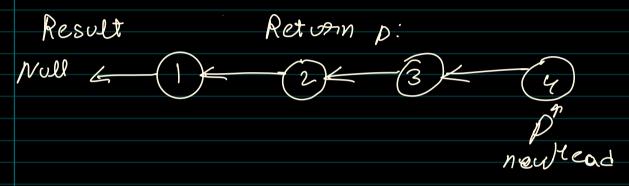












2nd approch: (Recursive method)

we have head (1) + (2) + (3) + (4) + n

Head This Reverse will be Head Done by Recversion



Linked list Reverse

I Our took is to point and Node to 1st node and make First node pointing to NULL

Head 7 Next 7 Next

```
class Solution {
private:
ListNode *reverse(ListNode *head)
    // Base Condition
    if(head -> next == NULL)
        return head;
    // Ask recursion to return the Reversed Head
    ListNode *reverseHead = reverse(head -> next) ;
    // Reverse the Adjacent Nodes that is, Head & Head's Next Node
    head -> next -> next = head ;
    head -> next = NULL ;
    // Return the Reversed Head at the end
   return reverseHead;
}
public:
    ListNode* reverseList(ListNode* head) {
    // If head is Equal to NULL, we don't have a LinkedList to reverse, so we directly return NUL
    if(head == NULL)
        return NULL ;
    // Otherwise we return the Reversed-Head given to us by the Recursive function reverse()
    return reverse(head);
};
Time Complexity: O(N)
Space Complexity: O(N) { Auxillary Stack Space of Recursion }
```

