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Day-6

Problem-9: Reverse Nodes in k-group
head = [1, 2, 3, 4, 5]
k = 2
output : [2, 1, 4, 3, 5]

// logic we will reverse the list according to value of k means k=2 will reverse two-two block if k=3 then 3-3 and so on.

// create three pointers pre, cur and nex

- cur → next = nex → next
- nex → next = pre → next
- pre → next = nex
- nex = cur → next
- move pre to cur and reduce length by k.

Remarks

TC: O(N)

SC: O(1)

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Problem-10 : Linked list Cycle II

Input : head = [3,2,0,-4], pos = 1
output : tail connects to node index 1

// logic we use tortoise method
// take two pointer slow by one step and fast by two step.
// if slow == fast ; break
// create another point i.e entry
// if slow != entry then move slow by one and empty by one
return entry point

TC : O(N)
SC : O(1)

Remarks