206. Reverse Linked List

Reverse a singly linked list.

**Hint:**

A linked list can be reversed either iteratively or recursively. Could you implement both?

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\* Definition for singly-linked list.

\* struct ListNode {

\* int val;

\* ListNode \*next;

\* ListNode(int x) : val(x), next(NULL) {}

\* };

\*/

class Solution {

public:

ListNode\* reverseList(ListNode\* head) {

ListNode\* tmp0;

ListNode\* tmp1;

ListNode\* tmp2;

if(!head or !head->next)return head;

tmp0=head;

tmp1=head->next;

head->next=NULL;

while(tmp1){

tmp2=tmp1->next;

tmp1->next=tmp0;

tmp0=tmp1;

tmp1=tmp2;

}

head=tmp0;

return head; }}; 8ms