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연결 리스트를 입력받아 페어 단위로 스왑하라.
Input: head = [1,2,3,4]
Output: [2,1,4,3]
# Definition for singly-linked list.
# class ListNode:
#
    def __init__(self, val=0, next=None):
#
      self.val = val
#
      self.next = next
1.값만 교환
class Solution:
  def swapPairs(self, head: ListNode) -> ListNode:
     result = head
     while head and head.next:
       head.val, head.next.val = head.next.val, head.val
       head = head.next.next
     return result
2.반복
class Solution:
  def swapPairs(self, head: ListNode) -> ListNode:
     root = prev = ListNode(None)
     prev.next = head
    while head and head.next:
       b = head.next
       head.next = b.next
       b.next = head
       prev.next = b
       head = head.next
       prev = prev.next.next
     return root.next
3.재귀
class Solution:
  def swapPairs(self, head: ListNode) -> ListNode:
    if head and head.next:
       p = head.next
       head.next = self.swapPairs(p.next)
       p.next = head
       return p
     return head
class Solution:
  def swap(self, node: ListNode, next:ListNode) -> ListNode:
     if not node or not node.next:
       return node
     nnext = next.next
     nnnext = None
     if next.next:
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nnnext = next.next.next
node.next, next.next = self.swap(nnext, nnnext), node
return next
def swapPairs(self, head: ListNode) -> ListNode:
 if not head or not head.next:
 return head
head = self.swap(head, head.next)
return head