

Swap Nodes in Pairs

Given a linked list, swap every two adjacent nodes and return its head.

Given `1->2->3->4`, you should return the list as `2->1->4->3`.

class Solution:

@param head, a ListNode

@return a ListNode

def swapPairs(self, head):

Write your code here

if head == None **or** head.next == None:

return head

create dummy node, use p to traverse

dummy = ListNode(0)

dummy.next = head

p = dummy

looping

while p.next **and** p.next.next:

 node1 = p.next

 node2 = node1.next

 post = node2.next

 p.next = node2

 node2.next = node1

 node1.next = post

 p = p.next.next

return result

return dummy.next