# Definition for singly-linked list.

# class ListNode:

# def \_\_init\_\_(self, x):

# self.val = x

# self.next = None

class Solution:

# @param A : head node of linked list

# @return the head node in the linked list

def solve(self, A):

count=0

p=[]

q=[]

while A:

if count%2==0:

q.append(A.val)

A=A.next

else:

p.append(A.val)

A=A.next

count+=1

ans=result=ListNode(0)

cp=0

for i in range(count):

if i%2==0 and q:

result.next = ListNode(q[cp])

result=result.next

cp+=1

elif i%2!=0 and p:

result.next =ListNode(p.pop())

result=result.next

return ans.next