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JavaAutocomplete

328. Odd Even Linked List

Medium4551369Add to ListShare

Given the `head` of a singly linked list, group all the nodes with odd indices together followed by the nodes with even indices, and return *the reordered list*.

The **first** node is considered **odd**, and the **second** node is **even**, and so on.

Note that the relative order inside both the even and odd groups should remain as it was in the input.

You must solve the problem in  $O(1)$  extra space complexity and  $O(n)$  time complexity.

Example 1:

Input: head = [1,2,3,4,5]  
Output: [1,3,5,2,4]

Example 2:

Input: head = [2,1,3,5,6,4,7]  
Output: [2,3,6,7,1,5,4]

Constraints:

- $n ==$  number of nodes in the linked list
- $0 \leq n \leq 10^4$
- $-10^6 \leq \text{Node.val} \leq 10^6$

Accepted 471,492Submissions 799,387

Seen this question in a real interview before?

YesNo

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1/\*\*  
2 \* Definition for singly-linked list.  
3 \* public class ListNode {  
4 \* int val;  
5 \* ListNode next;  
6 \* ListNode() {}  
7 \* ListNode(int val) { this.val = val; }  
8 \* ListNode(int val, ListNode next) { this.val = val;  
9 this.next = next; }  
10 \* }  
11 \*/  
12 class Solution {  
13 public ListNode oddEvenList(ListNode head) {  
14 }  
15 }

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31/31

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1/1