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# 2074. Reverse Nodes in Even Length Groups

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You are given the head of a linked list.

The nodes in the linked list are sequentially assigned to non-empty groups whose lengths form the sequence of the natural numbers (1, 2, 3, 4, ...). The length of a group is the number of nodes assigned to it. In other words,

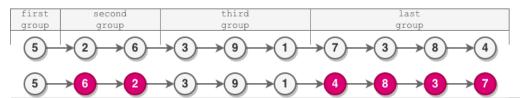
- The 1st node is assigned to the first group.
- The 2<sup>nd</sup> and the 3<sup>rd</sup> nodes are assigned to the second group.
- The 4<sup>th</sup>, 5<sup>th</sup>, and 6<sup>th</sup> nodes are assigned to the third group, and so on.

Note that the length of the last group may be less than or equal to 1 + the length of the second to last group.

Reverse the nodes in each group with an even length, and return the head of the modified linked list.

# User Accepted: 1923 **User Tried:** 2443 2000 **Total Accepted: Total Submissions:** 5492 Medium Difficulty:

#### Example 1:



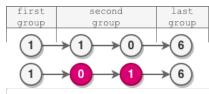
Input: head = [5,2,6,3,9,1,7,3,8,4]

**Output:** [5,6,2,3,9,1,4,8,3,7]

### **Explanation:**

- The length of the first group is 1, which is odd, hence no reversal occurrs.
- The length of the second group is 2, which is even, hence the nodes are reversed.
- The length of the third group is 3, which is odd, hence no reversal occurrs.
- The length of the last group is 4, which is even, hence the nodes are reversed.

## Example 2:



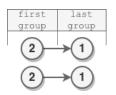
**Input:** head = [1,1,0,6]

**Output:** [1,0,1,6]

## **Explanation:**

- The length of the first group is 1. No reversal occurrs.
- The length of the second group is 2. The nodes are reversed.
- The length of the last group is 1. No reversal occurrs.

## Example 3:



```
Input: head = [2,1]
Output: [2,1]
Explanation:
- The length of the first group is 1. No reversal occurrs.
- The length of the last group is 1. No reversal occurrs.
```

### Example 4:

```
Input: head = [8]
Output: [8]
Explanation: There is only one group whose length is 1. No reversal occurrs.
```

### **Constraints:**

- The number of nodes in the list is in the range [1, 10<sup>5</sup>].
- 0 <= Node.val <= 10<sup>5</sup>

Discuss (https://leetcode.com/problems/reverse-nodes-in-even-length-groups/discuss)

