

ref=nb npl)





## 5927. Reverse Nodes in Even Length Groups

My Submissions (/contest/weekly-contest-267/problems/reverse-nodes-in-even-length-groups/submissions/)

Back to Contest (/contest/weekly-contest-267/)

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,

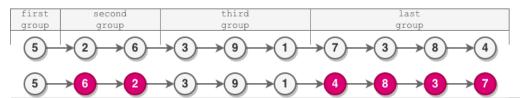
- The 1st node is assigned to the first group.
- The 2<sup>nd</sup> and the 3<sup>rd</sup> nodes are assigned to the second group.
- The 4<sup>th</sup>, 5<sup>th</sup>, and 6<sup>th</sup> nodes are assigned to the third group, and so on.

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: 0 **User Tried:** 0 0 **Total Accepted: Total Submissions:** 0 (Medium) Difficulty:

#### Example 1:



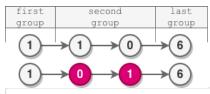
Input: head = [5,2,6,3,9,1,7,3,8,4]

**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:



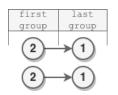
**Input:** head = [1,1,0,6]

**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>

```
JavaScript
                                                                                                               Ø
                                                                                                                     \boldsymbol{z}
 1 v const getAllData = (list) ⇒ {
 2
        let res = [];
 3
        let current = list;
 4 ▼
        while (current) {
 5
             res.push(current.val);
 6
             current = current.next;
 7
 8
        return res;
9
    };
10
11 v const createL = (arr) ⇒ {
12
        let tmp, node = null;
13
        let n = arr.length;
14 ▼
        for (let i = n - 1; \sim i; i--) {
15
             if (!node)
                 node = new ListNode(arr[i]);
16
            else {
17 ▼
18
                 tmp = new ListNode(arr[i]);
19
                 tmp.next = node;
20
                 node = tmp;
21
22
23
        return node;
    };
24
25
26 ▼ const reverseEvenLengthGroups = (head) => {
27
        let a = getAllData(head);
28
        let group = 1, i = 0, n = a.length;
29
        let d = [];
30 ▼
        while (i + group < n) {
31
            let tmp = a.slice(i, i + group);
32
            // pr(i, group, tmp);
33
            i += group;
34
            group++;
35
             d.push(tmp);
36
37
        let last = a.slice(i);
38
        d.push(last);
39
        // pr("d", d);
        let res = [];
40
41 ▼
        for (let i = 0; i < d.length; i++) {
42
            let judge = d[i].length;
            res.push(judge % 2 == 0 ? d[i].reverse() : d[i]);
43
44
45
        // pr("res", res);
        let ans = [];
46
        for (const e of res) ans = ans.concat(e);
```

Help Center (/support) | Jobs (/jobs) | Bug Bounty (/bugbounty) | Online Interview (/interview/) | Students (/student) | Terms (/terms) | Privacy Policy (/privacy)

United States (/region)