2181. Merge Nodes in Between Zeros

Solved ●

Medium Topics Companies Hint

You are given the `head` of a linked list, which contains a series of integers **separated** by `0`'s. The **beginning** and **end** of the linked list will have `Node.val == 0`.

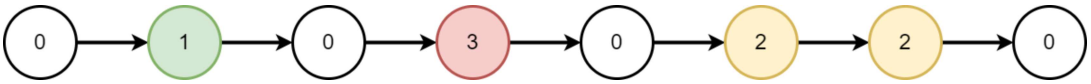
For **every** two consecutive `0`'s, **merge** all the nodes lying in between them into a single node whose value is the **sum** of all the merged nodes. The modified list should not contain any `0`'s.

Return *the* `head` *of the modified linked list.*

Example 1:

> **Input:** head = [0,3,1,0,4,5,2,0]
> **Output:** [4,11]
> **Explanation:**
> The above figure represents the given linked list. The modified list contains
> - The sum of the nodes marked in green: 3 + 1 = 4.
> - The sum of the nodes marked in red: 4 + 5 + 2 = 11.

Example 2:



> **Input:** head = [0,1,0,3,0,2,2,0]
> **Output:** [1,3,4]
> **Explanation:**
> The above figure represents the given linked list. The modified list contains
> - The sum of the nodes marked in green: 1 = 1.
> - The sum of the nodes marked in red: 3 = 3.
> - The sum of the nodes marked in yellow: 2 + 2 = 4.

Constraints:

- The number of nodes in the list is in the range $[3, 2 * 10^5]$.
- `0 <= Node.val <= 1000`
- There are **no** two consecutive nodes with `Node.val == 0`.
- The **beginning** and **end** of the linked list have `Node.val == 0`.

Seen this question in a real interview before? 1/5

Yes No

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Hint 1

Hint 2

Hint 3

Hint 4

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