6914. Double a Number Represented as a Linked List

My Submissions (/contest/weekly-contest-358/problems/double-a-number-represented-as-a-linked-list/submissions/)

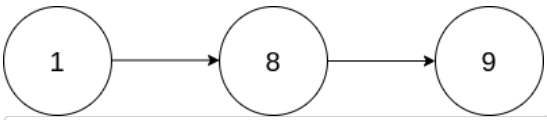
Back to Contest (/contest/weekly-contest-358/)

You are given the `head` of a **non-empty** linked list representing a non-negative integer without leading zeroes.

Return *the* `head` *of the linked list after* ***doubling*** *it*.

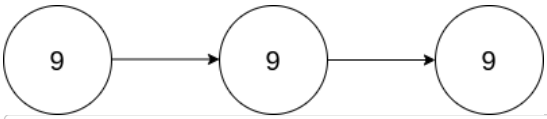
User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

Example 1:




```
Input: head = [1,8,9]
Output: [3,7,8]
Explanation: The figure above corresponds to the given linked list which represents the number 189. Hence, the returned linked
```

Example 2:




```
Input: head = [9,9,9]
Output: [1,9,9,8]
Explanation: The figure above corresponds to the given linked list which represents the number 999. Hence, the returned linked
```

Constraints:

- The number of nodes in the list is in the range `[1, 10^4]`
- `0 <= Node.val <= 9`
- The input is generated such that the list represents a number that does not have leading zeros, except the number `0` itself.

JavaScript

```
const getAllData = (list) => {
    let res = [], cur = list;
    while (cur) {
        res.push(cur.val);
        cur = cur.next;
    }
    return res;
};

const createL = (a) => {
    let tmp, node = null, n = a.length;
    for (let i = n - 1; ~i; i--) {
        if (!node) {
            node = new ListNode(a[i]);
        } else {
            tmp = new ListNode(a[i]);
            tmp.next = node;
            node = tmp;
        }
    }
    return node;
};

const doubleIt = (head) => {
    let a = getAllData(head), b = addStrings(a, a);
```

```
    return createL(b.split("").map(Number));
};

const addStrings = (x, y) => {
    let res = '', dot = 0, sum;
    let i = x.length - 1, j = y.length - 1;
    while (i >= 0 || j >= 0) {
        sum = (x[i--] | 0) + (y[j--] | 0) + dot;
        res = sum % 10 + res;
        dot = sum > 9 ? 1 : 0;
    }
    return (dot ? 1 : "") + res;
};
```

Custom Testcase | Use Example Testcases

Run | Submit

Submission Result: Accepted (/submissions/detail/1019743596/) | More Details > (/submissions/detail/1019743596/)

Share your acceptance!