

445. Add Two Numbers II

Medium

1737

169

Add to List

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You are given two **non-empty** linked lists representing two non-negative integers. The most significant digit comes first and each of their nodes contain a single digit. Add the two numbers and return it as a linked list.

You may assume the two numbers do not contain any leading zero, except the number 0 itself.

**Follow up:**  
What if you cannot modify the input lists? In other words, reversing the lists is not allowed.

**Example:**

**Input:** (7 -> 2 -> 4 -> 3) + (5 -> 6 -> 4)

**Output:** 7 -> 8 -> 0 -> 7

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Seen this question in a real interview before? 

Yes

No

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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; this.next = next; }
9   * }
10 */
11 class Solution {
12     public ListNode addTwoNumbers(ListNode l1, ListNode l2) {
13
14     }
15 }
```