class Solution {

public ListNode addTwoNumbers(ListNode l1, ListNode l2) {

int carry = 0;

ListNode emptyNode = new ListNode(0);

ListNode currentNode = new ListNode(0);

ListNode result = currentNode;

while (emptyNode != l1 || emptyNode != l2) {

int sum = l1.val + l2.val + carry;

carry = sum / 10;

currentNode = (currentNode.next = new ListNode(sum %= 10));

l1 = null != l1.next ? l1.next : emptyNode;

l2 = null != l2.next ? l2.next : emptyNode;

}

if (carry == 1)

currentNode.next = new ListNode(carry);

return result.next;

}

}