public ListNode addTwoNumbers(ListNode l1, ListNode l2) {

ListNode dummyHead = new ListNode(0);

ListNode p = l1, q = l2, curr = dummyHead;

int carry = 0;

while (p != null || q != null) {

int x = (p != null) ? p.val : 0;

int y = (q != null) ? q.val : 0;

int sum = carry + x + y;

carry = sum / 10;

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

curr = curr.next;

if (p != null) p = p.next;

if (q != null) q = q.next;

}

if (carry > 0) {

curr.next = new ListNode(carry);

}

return dummyHead.next;

}