Problem Link:

<https://leetcode.com/problems/add-two-numbers/>

Solution:

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\* Definition for singly-linked list.

\* struct ListNode {

\* int val;

\* ListNode \*next;

\* ListNode() : val(0), next(nullptr) {}

\* ListNode(int x) : val(x), next(nullptr) {}

\* ListNode(int x, ListNode \*next) : val(x), next(next) {}

\* };

\*/

class Solution {

public:

ListNode\* addTwoNumbers(ListNode\* l1, ListNode\* l2) {

ListNode\* h = new ListNode();

ListNode\* c = h;

int carry = 0;

while(l1 != nullptr || l2 != nullptr || carry != 0)

{

int v1 = (l1 != nullptr) ? l1->val : 0;

int v2 = (l2 != nullptr) ? l2->val : 0;

int s = v1 + v2 + carry;

carry = s / 10;

c->next = new ListNode(s % 10);

c = c->next;

if(l1 != nullptr)

l1 = l1->next;

if(l2 != nullptr)

l2 = l2->next;

}

return h->next;

}

};