

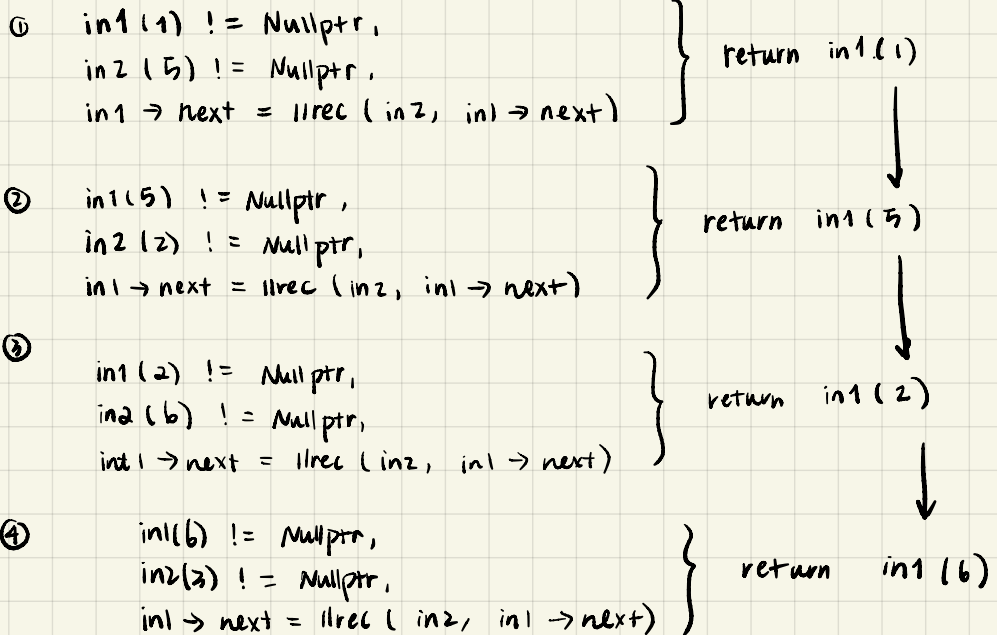
```

struct Node {
    int val;
    Node* next; → point
};

Node* llrec(Node* in1, Node* in2)
{
    if(in1 == nullptr) {
        return in2;
    }
    else if(in2 == nullptr) {
        return in1;
    }
    else {
        in1->next = llrec(in2, in1->next);
        return in1;
    }
}

```

Question a) what linked list is returned if llrec is called with the input linked lists in1 = 1, 2, 3, 4 and in2 = 5, 6?



After this, in1 will be 3, 4; and in2 is going to be an empty list, therefore  $(in2 == \text{Nullptr})$  is true

Therefore, the final output is 1, 5, 2, 6, 3, 4.

Question (b). What linked list is return if llrec is called with the input linked lists  $in1 = nullptr$ , and  $in2 = 2$  ?

If  $in1 = nullptr$  and  $in2 = 2$ ,  $in2$  will be returned, and it gives us the final output 2.