

```

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

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?

**Question b:** What linked list is return if llrec is called with the input linked lists in1 = nullptr and in2 = 2?

a) llrec(1,5)  $1 \rightarrow 5 \rightarrow 2 \rightarrow 6 \rightarrow 3 \rightarrow 4$

↓

llrec(5,2)  $5 \rightarrow 2 \rightarrow 6 \rightarrow 3 \rightarrow 4$

↓

llrec(2,6)  $2 \rightarrow 6 \rightarrow 3 \rightarrow 4$

↓

llrec(6,3)  $6 \rightarrow 3 \rightarrow 4$

↓

llrec(3, nullptr)  $3 \rightarrow 4$

b) llrec(nullptr, 2)

2