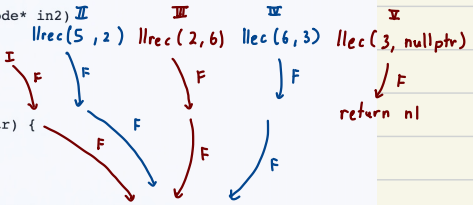
Problem 4

a. in1 = 1,2,3,4 in2 = 5, 6

```
struct Node {
    int val;
    Node*  next;
};
                    I
                1   5
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;
    }
}
```



3, 6, 2, 5, 1

b. in1 = nullptr in2 = 2

```
struct Node {
    int val;
    Node*  next;
};
            nullptr      2
Node* llrec(Node* in1, Node* in2)
{
    if(in1 == nullptr) {  True
        return in2;
    }
    else if(in2 == nullptr) {
        return in1;
    }
    else {
        in1->next = llrec(in2, in1->next);
        return in1;
    }
}
```

2