

answer.

```

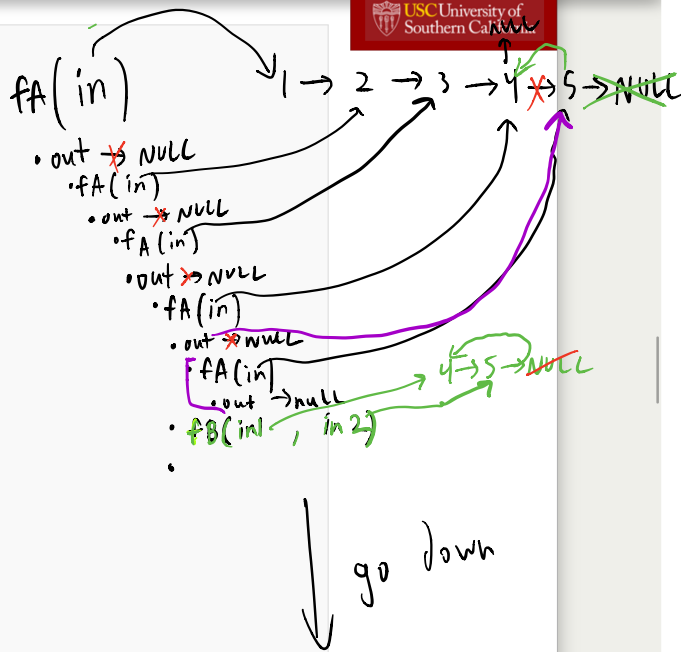
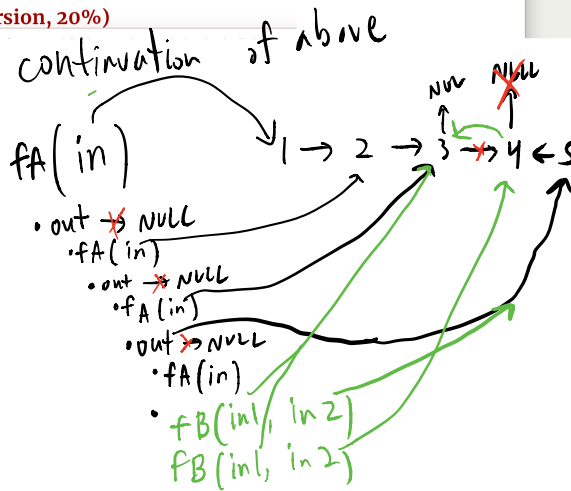
struct Node {
    int value;
    Node *next;
};

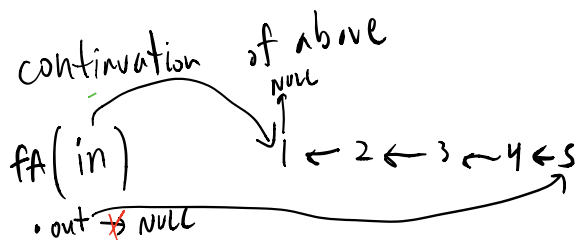
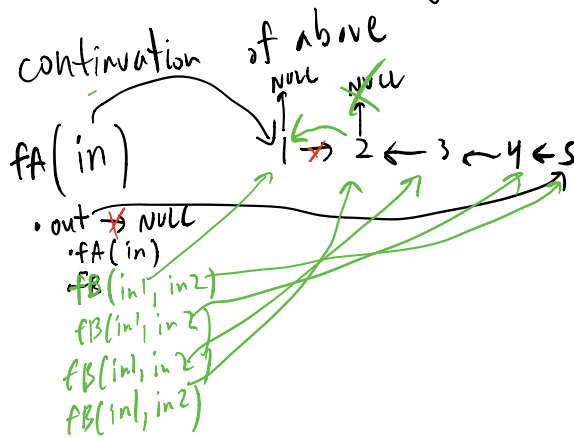
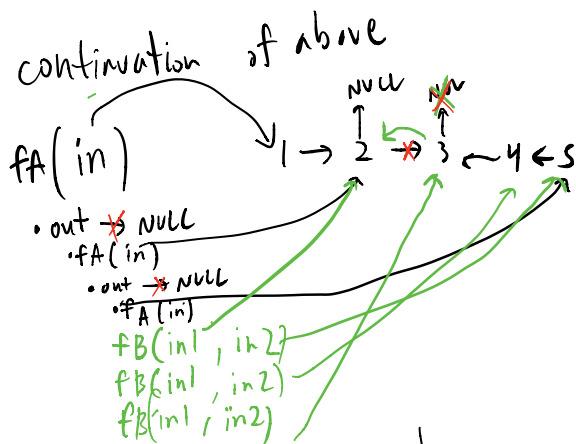
void funcB (Node* in1, Node* in2);

Node* funcA (Node* in)
{
    if (in == NULL) return NULL;
    Node* out = NULL;
    if (in->next != NULL)
    {
        out = funcA (in->next);
        funcB (in, out);
        in->next = NULL;
        return out;
    }
    return in;
}

void funcB (Node* in1, Node* in2)
{
    if (in2->next != NULL)
    {
        funcB (in1, in2->next);
        return;
    }
    in2->next = in1;
}

```

**Problem 6 (Linked Lists, Recursion, 20%)**



Result is a Nodepointer ( $*out$ ) that points to reversed linked list.

Node\* out  $\rightarrow$  [5]  $\rightarrow$  [4]  $\rightarrow$  [3]  $\rightarrow$  [2]  $\rightarrow$  [1]  $\rightarrow$  NULL