

Exercise 6

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Given the following C/C++ pseudo code.

```
struct List { int val; struct List* next; };
int count (struct List* head)
{
    if (head == NULL) return 0;
    t = count(head->next);
    return 1 + t;
}

int main() {
    struct List* mylist;
    mylist = new struct List();
    mylist->next = new struct List();
    mylist->val = mylist->next->val = 0;
    int len = count(mylist);
    printf("len = %d", len);
}
```

1. Draw an interprocedural control flow graph for the above code.
2. Give the steps of performing interprocedural variable range analysis on the above code. Your context need to remember only a single caller when analyzing function definitions.