

## **Foundation Exam CS Review Practice Questions - August 10, 2015**

1) Complete a function to reverse a linked list. Do NOT create any new nodes in your function. Rather, change the pointers as necessary so that the same nodes are connected in reverse order. Do the following:

- 1) First, solve this problem on paper.
- 2) Please download the framework linklist.c.
- 3) Type in your code into the appropriate function.
- 4) Run it, see if it works. (It probably won't.)
- 5) Next, debug your code, meticulously paying attention to the changes you made to fix your code.
- 6) Distill those changes into a short list of items "to watch out for."

2) Follow the same six steps above for the following functions.

```
int isPrime(int n);  
void printPrimesReverse(struct tree_node* root);
```

The first should return 1 if n is prime and 0, otherwise.

The second should take in a pointer to a binary search tree, and print out all the primes stored in the tree in descending order.