**Q 2.6** (pg. 95 *Cracking the Coding Interview, 6th Edition*)

Implement a function to check if a linked list is a palindrome.

*5,13,29,61,101*

*Hint 1*: A palindrome is something which is the same when written forwards and backwards. What if you reversed the linked list?

*Hint 2*: Try using a stack.

*Hint 3*: Assume you have the length of the linked list. Can you implement this recursively?

*Hint 4*: In the recursive approach (we have the length of the list), the middle is the base case: isPalindrome(middle) is true. The node x to the immediate left of the middle: What can that node to check if x->middle->y is a palindrome? Now suppose that checks out. What about the previous node a? If x->middle->y is a palindrome, how can it check at a->x->middle->y->b is a palindrome?

*Hint 5*: Go back to the previous hint. Remember: there are ways to return multiple values. You can do this with a new class.