Problem Set 3

1. Write a function that prints the kth node from the end of a singly linked list.
2. Check whether a given linked list is cyclic. If yes, display the node where the cycle starts, find length of the loop and remove the loop.
3. Reverse a singly linked list.
4. There are two linked lists merging at some point and becoming a single list thereafter. Find the intersection node.
5. Write a function to display the middle element in a linked list.
6. Display a singly linked list from the end.
7. Check if the length of a linked list is even or odd without using an integer count variable.
8. Given two sorted linked lists , merge them to form a sorted final list.
9. Write a function to reverse the linked lists in pairs.

Eg . input : 1->2->3->4->5

Output : 2->1->4->3->5

1. Check if a linked list is a palindrome.
2. Given that every node contains int data,Node next and Node random which points to a random node in the list , write a function to replicate the entire list.
3. Chocolate Brain Teaser 1.
4. Chocolate Brain Teaser 2.