**Lab-06**

**Leetcode problem: Intersection of two linked list**

#include <stdlib.h>

typedef struct ListNode {

int val;

struct ListNode \*next;

} ListNode;

ListNode \*getIntersectionNode(ListNode \*headA, ListNode \*headB) {

int a = 0, b = 0;

ListNode \*currA = headA, \*currB = headB;

while(currA != NULL){

currA = currA->next;

a++;

}

while(currB != NULL) {

currB = currB->next;

b++;

}

int k = abs(b - a);

if (b > a) {

while(k--) {

headB = headB->next;

}

}

else {

while(k--) {

headA = headA->next;

}

}

while(headA != headB && headA->next != NULL && headB->next != NULL) {

headA = headA->next;

headB = headB->next;

}

if(headA != headB) return NULL;

return headA;

}

 

