Problem 4:

1next=5 5->next=2 2->n=6 6->next=3

(A) 1,5 -> 5,2 -> 2,6 -> 6,3 -> 3,null ->

(1) next = llrec(1,5)

1->5->2->6->3->A

The function goes in the order of passing 1,5 and then 5,2 then 2,6 then 6,3 then 3,null. Once in2 is set to null the function returns in1 which is 3 and sets the next node of 6 to 3. Then it returns 6 and sets the next node of 2 to 6. Then it returns 2 and sets the next node of 5 to 2. Then it returns 5 and sets the next node of 1 to 5. The final order is 1->5->2->6->3->A

(B) Since in1 is a nullptr the first part of the if statement is run and it returns the in2 linked list node 2.