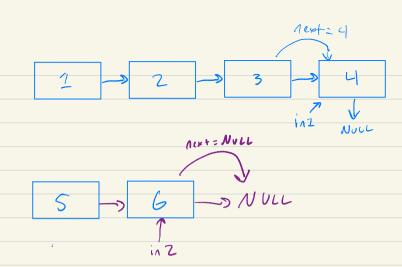
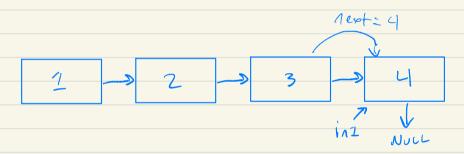
```
Problem 4
(a)
 struct Node {
     int val;
     Node* next;
 };
 Node* llrec(Node* in1, Node* in2)
 {
     if(in1 == nullptr) {
         return in2;
     else if(in2 == nullptr) {
         return in1;
     }
     else {
         in1->next = llrec(in2, in1->next);
         return in1;
     }
 }
```

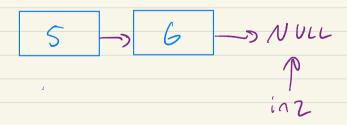
Work: next=2 in NULL in2 AUIL 1ex+=3 4 NULL in Vrext = b in2 AUII 2 1 in1 NUCL

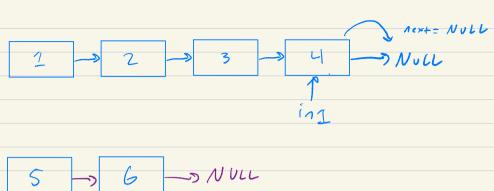
- NULL

1









inz

•

```
in 1: 1,2,3,4
                         in 2:5,6
Main ()
  Mrec Lin 1, in 2)
  in 1 >next = (in2, in1 >next)
        11rec (5,2)
       in1 -> next = (2,6)
               (1rec (2,6)
             in I -> next = (6,3)
                       Mac (6,3)
                    IN1 -> next = (3, NULL)
                             Hrel (3, NULL)
                             in1 -> next = (3, NULL)
                                 1/12 (3, NULL)
                                      Mrec ( 4, NULL)
                                     In 7 ->next = (NULL, NULL)
                                           Mrec (4, Norl)
After the last (all, in1 == NULL, it
Will return hand Pointer
                               to in I.
in 2 Will return [1,5,2,6,3,4].
```

(b) in I: NULL in 2: 2 Main () Mrec Linz, in 2) NULL Z if Lin1 = NULL) return in 2 The first if Statement is executed Since int-> NULL SO in 2 [2] is letone.