```
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;
    }
}
```

a)   in 1 = {1,2,3,4}
      in2 = {5,6}

llrec (*1, *5)
  *1 → next = llrec (*5, *2)
    ↳ *5→next = llrec (*2, *6)
       ↳ *2 → next = llrec (*6, *3)
          ↳ *6→next: llrec (*3, NULL)
             ↳ return *3

returned_list = (1, 5, 2, 6, 3)

b) The function should just return in2, which = 2

    returned_list = (2)