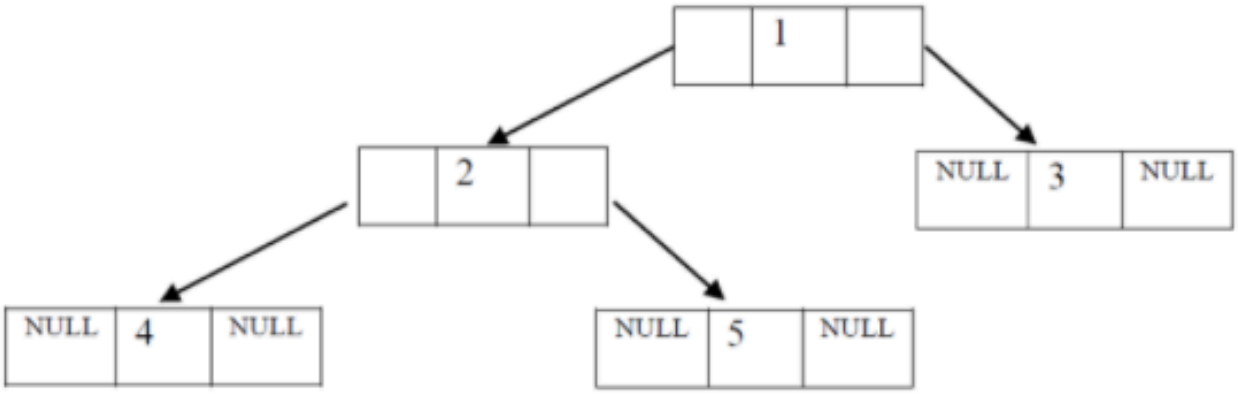
Score for this quiz: **100** out of 100

Submitted Jul 7 at 5:48pm

This attempt took 16 minutes.

Question 1

40 / 40 pts



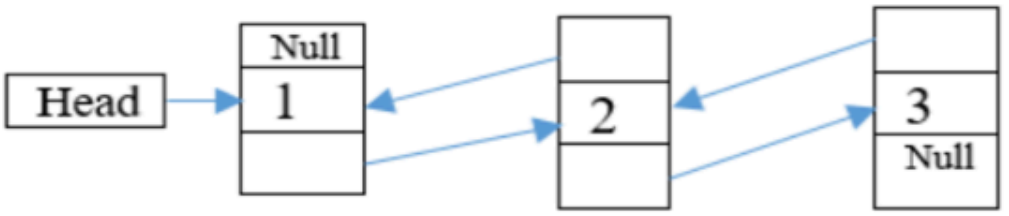
Please fill in the blank lines to define each node from a transformed singly linked list. You can use the notations "left" and "right".

```
1. struct Node
2. {
3.     int data;
4.     struct [Node *left] ;
5.     struct [Node *right] ;
6.
7.     Node(int data)
8.     {
9.         this->data = data;
10.        [this->left = NULL] ;
11.        [this->right = NULL] ;
12.    }
13. };
```

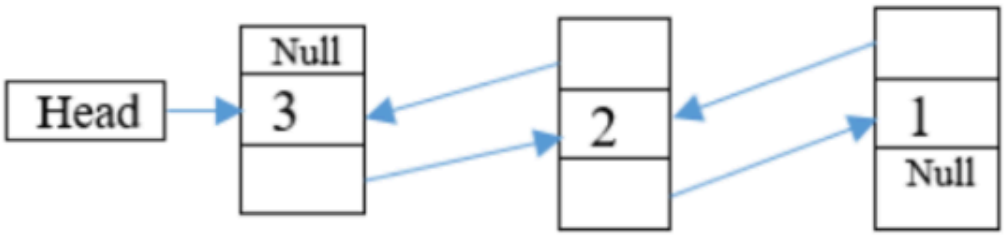
Question 2

60 / 60 pts

Before



After



Please fill in the blank lines to reverse a doubly linked list with a recursion.

```
1. Node* Reverse(Node* node)
2. {
3.     // If empty list, return
4.     if (!node)
5.         return [ NULL ];
6.
7.     // swap
8.     Node* temp = [ node->next ];
9.     node->next = [ node->prev ];
10.    node->prev = [ temp ];
11.
12.    // If the prev is now NULL, the list
13.    // has been fully reversed
14.    if ( [ !node -> prev ] )
15.        return node;
16.
17.    // Otherwise, keep going
18.    return Reverse( [ node -> prev ] );
19. }
```