## **Applied Programming**

## Fall 2017

## Quiz # 3

Registration #
<b>Question:</b> You are given the following declarations. Add a function named removeLeaves(Node *v) that removes all leaf nodes from the tree rooted at v.
<pre>struct Node{ int key, depth, height; struct Node *parent, *leftChild, *rightChild; }; class BinTree{ private:     struct Node* root;     int height, size; public:</pre>
BinTree();    ~BinTree();    // Other member functions are not shown here.    // If you assume some function exists, clearly show the function name, return type    // arguments and a description of what it does    removeLeaves(struct Node *v){
<pre>if ( ( v-&gt;leftChild == NULL ) &amp;&amp;( v-&gt;rightChild == NULL ) ) {     if (v-&gt;parent-&gt;leftChild == v)</pre>
<b>}</b> ;