int countNodes( TreeNode \*root ) {

// Count the nodes in the binary tree to which

// root points, and return the answer.

if ( root == NULL )

return 0; // The tree is empty. It contains no nodes.

else {

int count = 1; // Start by counting the root.

count += countNodes(root->left); // Add the number of nodes

// in the left subtree.

count += countNodes(root->right); // Add the number of nodes

// in the right subtree.

return count; // Return the total.

}

} // end countNodes()