QUESTION #6

DIAMETER OF BINARY TREE
To find the diameter of a binary tree.

TREES

Solution

1. Calculate height of left subtree(left_height)
   Height()
   1.1. If tree is empty,
           return 0
   1.2. Else,
           Get max height of left subtree recursively
           i.e., call height(tree->left-subtree)
2. Calculate height of right subtree(right_height)
   Height()
   2.1. If tree is empty then return 0
   2.2. Else,
           Get max height of right subtree recursively
           i.e., call height(tree->right-subtree)
3. diameter = left_height+right_height+1