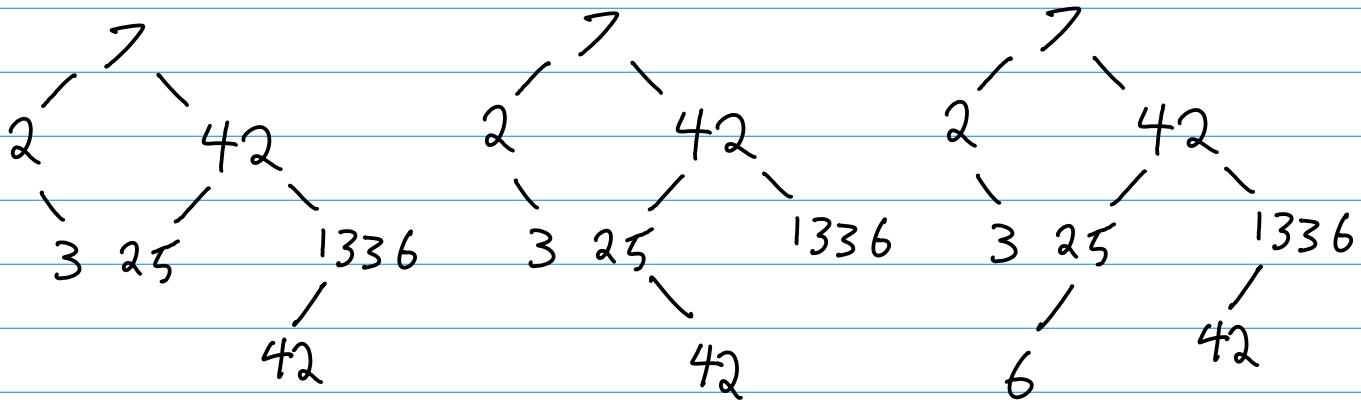


Binary Search Tree: binary tree where for every node the left sub-tree only contains nodes with a value less than the node and the right subtree only contains nodes with a value greater than or equal to the node



Is BST

✓

✗

✗

BST Operations

Add: if tree is empty add new node as root
otherwise make root current node
* if new node is less than current node
 if left child exists
 make left child current node, go to *
 if left child does not exist
 add new node as left child of current node
 if new node is greater than or equal to current node
 if right child exists
 make right child current node, go to *
 if right child does not exist
 add new node as right child of current node

Find: make root current node
* if desired node == current node
 return current node
if desired node is less than current node
 if left child exists
 make left child current node, go to *
 if left child does not exist
 return node not found
if desired node is greater than or equal to current node
 if right child exists
 make right child current node, go to *
 if right child does not exist
 return node not found