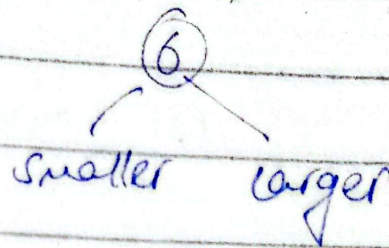
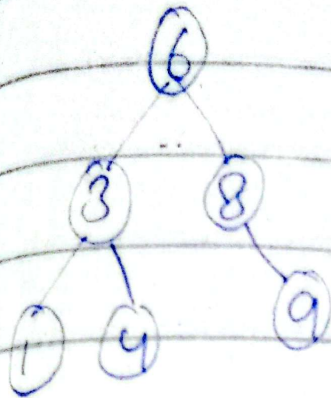


Construct BST from Preorder

preorder = [6, 3, 1, 4, 8, 9]



preorder
root
left
Right

Recursively



upper bound

Pseudocode

Node* BuildBST(preorder, ⁱi, ^{bound}bound)
if (i >= pre.size() || preorder[i] > bound)
 return NULL

Node* root = newNode(preorder[i]);

i++

root->left = buildBST(preorder, i, root->val)

root->right = buildBST(preorder, i, bound)

return root;

TC = $O(n)$