```
int BST::MaxDepth(TreeNode *root){
int depth = 0;
  return depth;
  int lDepth = MaxDepth(root -> left);
  int rDepth = MaxDepth(root -> right);
   return (lDepth + 1);
    return rDepth + 1;
}//Time Complexity: O(n)
int BST::MaxD() {
return MaxDepth(root_);
}//Time Complexity: O(n)
```

```
vector<int> BST::InorderNonRec(TreeNode *root){
  vector<int> v = {};
  stack<TreeNode *> output;
  TreeNode *curr = root;
  if(root == NULL){
    return v;
}

while(curr != nullptr || !(output.empty())){
    while(curr != nullptr){
        output.push(curr);
        curr = curr -> left;
}
    curr = output.top();
    v.push_back(output.top()->val);
    output.pop();
    curr = curr -> right;
}
  return v;
}//Time Complexity: O(n)

vector<int> BST::InoderPrint2(){
  return InorderNonRec(root_);
}//Time Complexity: O(n)
```

```
void BST::InorderRec(TreeNode *root, vector<int> &result) {
   if(root == NULL) {
      return ;
   }
   InorderRec(root->left, result);
   result.push_back(root -> val);
   InorderRec(root->right, result);
}//Time Complexity: O(n)

vector<int> BST::InoderPrint() {
   InorderRec(root_, result);
   return result;
}//Time Complexity: O(n)
```