import java.util.\*;

class Node {

int data;

Node left, right;

public Node(int val) {

data = val;

left = right = null;

}

}

public class Main {

// Insert a node into the BST

static Node insert(Node root, int val) {

if (root == null) {

return new Node(val);

}

if (val < root.data) {

root.left = insert(root.left, val);

} else if (val > root.data) {

root.right = insert(root.right, val);

}

return root;

}

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

String arr[] = sc.nextLine().split(" ");

Node root = null;

// Build the BST

for (String s : arr) {

int val = Integer.parseInt(s);

root = insert(root, val);

}

// Perform Traversals

System.out.println("Preorder Traversal:");

preorder(root);

System.out.println("\nInorder Traversal:");

inorder(root);

System.out.println("\nPostorder Traversal:");

postorder(root);

System.out.println("\nLevel Order Traversal:");

level(root);

}

}