



```

/*
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*/

```

```

package dsaj6;

/**
 *
 * @author Admin
 */
public class Tree {

    public int data;
    Tree left;
    Tree right;

    public Tree(int data) {
        this.data = data;
        left = null;
        right = null;
    }

    public Tree() {

    }

    public static void inOrder(Tree root) {
        if (root == null) {
            return;
        }
        // LEFT ROOT RIGHT

        inOrder(root.left); //for Left Sub Tree
        System.out.print("==>" + root.data); //ROOT
        inOrder(root.right); //Right Sub Tree

    }

    public static Tree insert(Tree root, int data) {
        if (root == null) {
            return new Tree(data);
        }
        if (data < root.data) {
            root.left = insert(root.left, data);
        } else {
            root.right = insert(root.right, data);
        }

        return root;
    }

    public boolean bst(Tree root, int search) {
        boolean b = false;
        try {
            if (root.data == search) {
                return true;
            }
        }
        if (root == null) {
            return false;
        }
        if (search < root.data) {

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        b=bst(root.left, search);
    }if(search>root.data){
        b=bst(root.right,search);
    }
    }catch(Exception ne){
        System.out.println("Element Not Found");
        return false;
    }
    return b;
}
public static void main(String[] args) {
    Tree root = new Tree(100);
    insert(root, 70);
    insert(root, 60);
    insert(root, 65);
    insert(root, 90);
    insert(root, 150);
    insert(root, 120);
    insert(root, 190);

    System.out.println("\nBinary Search : "+root.bst(root, 191));
}
}

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        System.out.print("==>" + root.data);//ROOT
        inOrder(root.right);//Right Sub Tree
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        if (root == null) {
            return new Tree(data);
        }
        if (data < root.data) {
            root.left = insert(root.left, data);
        } else {
            root.right = insert(root.right, data);
        }

        return root;
    }

    public boolean bst(Tree root,int search){
        boolean b=false;
        try{
            if(root.data==search){
                return true;
            }
            if(root==null){
                return false;
            }
            if(search<root.data){
                b=bst(root.left, search);
            }if(search>root.data){
                b=bst(root.right,search);
            }
        }catch(Exception ne){
            System.out.println("Element Not Found");
            return false;
        }
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```

Untitled - Paint

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Collection(I)

drawback of array

1. fixed in size after declaring the array we can not change it
2. It can store same type of data

Advantage of Collection

1. This is flexible and growable in nature
2. It can store same type data or different types data except TreeSet

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