

Eclipse - Lab9/src/lab9/BinarySearchTree.java - Eclipse IDE

FileEditSourceRefactorNavigateSearchProjectRunWindowHelp

Project Explorer

Lab9

- JRE System Library [JavaSE-17]
- src

BinarySearchTree.java

```
109         bst.insert(22);
110         bst.insert(35);
111         bst.insert(70);
112         bst.insert(4);
113         bst.insert(12);
114         bst.insert(18);
115         bst.insert(24);
116         bst.insert(31);
117         bst.insert(44);
118         bst.insert(66);
119         bst.insert(90);
120
121         System.out.println("Maximum Depth: " + bst.maxDepth(bst.root));
122         System.out.println("Size (Recursive): " + bst.sizeRecursive(bst.root));
123         System.out.println("Size (Iterative): " + bst.sizeIterative(bst.root));
124
125         System.out.println("\nPre-order Traversal:");
126         bst.preOrder(bst.root);
127         System.out.println();
128
129         System.out.println("\nIn-order Traversal:");
130         bst.inOrder(bst.root);
131         System.out.println();
132
133         System.out.println("\nPost-order Traversal:");
134         bst.postOrder(bst.root);
135         System.out.println();
136     }
137 }
```

Outline

Coverage

lab9

- BinarySearchTree
 - Node
 - root : Node
 - BinarySearchTree()
 - insert(int) : void
 - insertRecursive(Node, int) :
 - maxDepth(Node) : int
 - sizeRecursive(Node) : int
 - sizeIterative(Node) : int
 - preOrder(Node) : void
 - inOrder(Node) : void
 - postOrder(Node) : void
 - main(String[]) : void

ProblemsJavadocDeclarationConsole

<terminated> BinarySearchTree [Java Application] C:\Users\chait\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.9.v20231028-0858\jre\bin\javaw.exe (Apr 7, 2024, 4:13:58 PM - 4:13:58 PM)

Maximum Depth: 4
Size (Recursive): 15
Size (Iterative): 15

Pre-order Traversal:
25 15 10 4 12 22 18 24 50 35 31 44 70 66 90

In-order Traversal:
4 10 12 15 18 22 24 25 31 35 44 50 66 70 90

Post-order Traversal:
4 12 10 18 24 22 15 31 44 35 66 90 70 50 25

Lab9