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**CS 451**  
**Programming Assignment #6,7**  
**Object-Oriented Programming**  
**OO Trees**

Due 11/23 (java) 12/7(Smalltalk)/09, by 6:00am sharp!

**Introduction**

The goal of this assignment is to do some Object-Oriented Programming in Smalltalk and Java. Write the class `BinaryTree` for a binary tree of integers. The tree should be sorted, but need not be balanced. It should include methods to insert numbers and to print the tree inorder, preorder, and postorder. Write main routines to test your codes.

**What to hand in**

- (1) Email me a listing of your programs and the output from some representative test inputs **as two simple text email message** — one for Smalltalk and one for Java with the output added to the bottom of the code as a comment.

**Notes**

- (1) Put some thought into not writing the imperative version from 301, but writing a truly Object-Oriented version.
- (2) Doing the Java version first lets you think about the design before worrying after Smalltalk syntax. Doing Smalltalk first, while tougher, will force you toward a more OO solution. Heck you could do Java, Smalltalk, Java (without peeking) and then compare the two Java versions.