# Inlab9 – Binary Search Trees

**Objective**

The objective of this in lab is to implement a simple binary tree class for storing and *non-recursively* searching for integers.  As a starting point, you should use the binary tree classes that we developed in class (3/8).
What to do:
- Get the BinaryTree and TreeNode classes we developed in class
- Create a search method in BinaryTree so that is non-recursive - it searches for a given integer and returns the node containing it, if the integer is in the tree or null if not:

  ```
  public TreeNode nonRecursiveSearch(int value) {
  }
  ```

- Write a simple Driver class that creates a new BinaryTree, inserts 500 random integers in the range [0,1000].
- Search for the following values: 100, 200, 300, 400, 500.  Report which values are found in the tree.

**What to Turn In**

Turn in your Netbeans project.