**lab04 Binary Search Tree Node Deletion**

# The Problem

Refer to the two versions of delete() methods found in the file BinarySearchTree.java, implement the two versions of deletePrime() methods so that when an element is to be deleted, the leftmost element in the right subtree will be used as a replacement instead of the rightmost element in the left subtree.

You will need to provide the method findSmallestChild instead of findLargestChild. Study the given code carefully before modification.

# Program Development

The test driver TestBinarySearchTree.java is given to test the working of these methods. The test driver should not be modified. Its output is as follows:

```
Add to beginning and end of list.
-1 9 18 83 104 129 157 173 176 221 223 230 236 288 308 350 358 365 436 455 488 501
 Remove first, last, and middle elements.
9 18 83 104 129 157 173 176 221 223 236 288 308 350 358 365 436 455 488
Initial shape as expected
After deletePrime(3) shape as expected
After deletePrime(2) shape as expected
```

# Submission

Zip the solution folder of all the source files and name it ***Lab04g<YourLabGroupNo><YourMatricNo>.zip***. Submit the zip file into the correct folder in your group's workbin.