Lab 7

Turn In:

1. Coding Assignment – Due Txxxx, xxxx xx, 2014
    a) For each exercise, a hardcopy package must be generated to include the following items:
       - Cover Sheet (see the sample copy include in lecture note)
       - Exercise/problem statement
       - Copy of program (named as **cis27Spring2014YourNameLab7Ex1)**
       - Copy of output (copy and paste from output screen as possible)

    b) Submitting in class one hard copy package for each exercise; and
    c) Emailing your work as follows,
       - One message for each exercise.
       - Attaching the source file (program) that was created in part (a).
       - The SUBJECT line of the message should have one of the following lines:
            `CIS 27 Spring 2014 Your Name : Lab 7 – Exercise #1`
         Or,
            `cis27Spring2014YourNameLab7Ex1`

2. Q.E.D.

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Problem #1

Part A
1) Provide a non-recursive algorithm to find the smallest node in a BST of **Fraction** objects.
2) Write a non-recursive function **getSmallestFractionBSTYourName()** to find the smallest node in a BST of **Fraction** objects.

Part B
Create a menu program to test the above functions. The menu should at least have the following options:
(1) Insert a (**Fraction**) node to a BST; no duplicate allowed
(2) Display
(3) Search for a given (**Fraction**) node
(4) Remove a node
(5) Get & display the smallest node
(6) Quit

All of the above functions should be non-recursively implemented and named as follows:

```
insertFractionBSTYourName()
displayFractionInorderBSTYourName()
displayFractionPreorderBSTYourName()
displayFractionPostorderBSTYourName()
searchFractionBSTYourName()
removeFractionBSTYourname()
getSmallestFractionBSTYourName()
```

Name your program as **cis27Spring2014YourNameLab7Ex1.c** and test your program with the following tree,