IT 310

Fall 2017

Program VI

A file Prog6.zip has been placed on D2l. This file contains 2 folders QueuePackage and TreePackage.. These packages contain implementations for queues and trees. You do not need to, nor should you, modify the code in these folders in any way. The code in these folders has already been compiled. Prog6.zip also contains 6 files, ex.txt, InOrderIterator.java, LevelOrderIterator.java, PostOrderIterator.java, PreOrderIterator.java and Prog6.java. ex.txt contains a single line that consists of an arithmetic expression in postfix notation. PreOrderIterator.java contains already implemented code for preorder iterators. Again, you do not need to modify any of the code in PreOrderIterator.java. InOrderIterator, LevelOrderIterator and PostOrderIterator each contain skeleton code that ***you*** need to complete. Prog6.java contains driver code that is already implemented for you. The output from all of this for the arithmetic postfix expression in ex.txt should be:

Enter the filename you want to evaluate: ex.txt

The fully parenthesized infix expression is: ((1\*2)+(3-5))

The answer after evaluating expression is: 0

Level order traversal of tree using iterator is: + \* - 1 2 3 5

Inorder traversal of the tree using iterator is: 1 \* 2 + 3 - 5

Preorder traversal of the tree using iterator is: + \* 1 2 - 3 5>Exit code: 0

To submit your code to D2L, zip your InOrderIterator.java, LevelOrderIterator.java, and PostOrder.java files into a file named YourFirstNameYourLastNameIterators.zip and submit them to your dropbox.

This assignment is due by Thursday December 6 at 11:59 p.m.