CS1023 Lab Mar 22-24

Data structures: binary search tree

Requirements

Complete as many of the following as you have time for.

- 1. Download lab-mar-22.c from Blackboard.
- 2. Create a binary search tree to store the names of 8 programming languages
- 3. Provide the implementation code for PreOrderWalk
- 4. Provide the implementation code for PostOrderWalk
- 5. Display the contents of your tree using
 - (a) InOrder traversal
 - (b) PreOrder traversal
 - (c) PostOrder traversal
- 6. Free the memory used by your tree.
- 7. Using lab-mar-22.c as a template, create an application to build a binary search tree for integers.
- 8. Insert 20 random integers in your tree
- 9. Display your tree using InOrder traversal.

To be handed in:

- Copy and paste your source code for this lab into the submission box on Blackboard.
- 2. Ensure that your name and student number are included in the comments