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CMPSC 122

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**Purpose:**

The purpose of this assignment is to be familiar with binary search trees, and how to arrange them in a certain order on paper.

**Part A:**

**In-Order Traversal:**

100, 25, 110, 50, 120, 30, 15, 130, 75, 150, 140, 160

**Pre-Order Traversal:**

15, 50, 25, 100, 110, 30, 120, 75, 130, 140, 150, 160

**Post-Order Traversal:**

100, 110, 25, 120, 30, 50, 130, 150, 160, 140, 25, 15

**Part B:**

What is the tree for the following mathematical expression?

((x \* y) + z) / ((a % (b – c))^2) (which is in in-fix notation).

**Pre-Fix Notation:**

/, +, \*, x, y, z, ^, %, a, -, b, c, 2

**Post-Fix Notation:**

x, y, \*, z, +, a, b, c, -, %, 2, ^, /