

Data Structures, COSC-2336
Assessment of Lesson 8 (Binary Search Trees)

Exercise 1. Represent the array [2 5 -1 9 4 0 -3 7 3 14 6] as a binary search tree. Then list the preorder, inorder, postorder, and breadth-first traversals.

Exercise 2. Let us consider the following eleven letters: A, E, F, G, H, I, L, M, N, O, S, and T, with the following frequencies: 0.04, 0.17, 0.04, 0.04, 0.04, 0.04, 0.04, 0.04, 0.10, 0.10, 0.25, and 0.10, respectively. Generate the Huffman tree and its associated code.