

Binary Search Tree – Practice Exercises

For each of the following data sets, construct a binary tree and then output the data using pre, in and post order traversal algorithms. You may assume that data is entered into the binary tree in numeric order (ascending).

Set 1: 8, 87, 81, 70, 38, 21, 83, 61, 6, 94

Set 2: 65, 77, 8, 79, 6, 46, 58, 85, 84, 52

Set 3: 83, 19, 24, 2, 94, 81, 63, 40, 65, 58

Set 4: 86, 66, 80, 14, 70, 54, 93, 35, 3, 2

Set 5: 14, 82, 87, 77, 61, 70, 96, 52, 39, 6

Set 6: 23, 52, 74, 11, 38, 49, 55, 14, 25, 81

Set 7: 52, 28, 89, 43, 73, 30, 51, 47, 66, 71

Set 8: 59, 3, 66, 17, 60, 61, 81, 27, 22, 44

Set 9: 48, 17, 89, 67, 14, 10, 29, 19, 76, 40

Set 10: 49, 17, 79, 7, 71, 75, 90, 44, 42, 87