

1.4.2 – Data Structures – Binary Search Tree Exercises

The following sets of data are stored in a binary tree, with the left branch preceding the node numerically/alphabetically and the right branch following numerically/alphabetically.

Data Set 1: *70, 67, 79, 55, 12, 78, 89, 57, 79*

Data Set 2: *Leek, Thyme, Anchovy, Orange, Parsley, Coffee, Kale, Flour, Mustard, Soup*

Data Set 3: *45, 37, 65, 39, 41, 13, 57, 73, 40, 36, 38, 68*

FOR EACH DATA SET IN TURN...

1. Put this data into a tree structure.
2. Show the data retrieved using pre-order traversal.
3. Show the data retrieved using in-order traversal.
4. Show the data retrieved using post-order traversal.