1. Slide42

Inorder: ZWSB YRA A EU GPJ

Preorder: A B SWZ R YA UE PGJ

Postorder: ZWS YAR B EGJPU A

1. Tree\_quiz question 2

The final tree:

This is not an AVL Tree.

1. Tree\_Quiz question 3

A binary tree is a complete binary tree if all levels are completely filled except possibly the last level and the last level has all keys as left as possible.

Max nodes: 15

Min nodes: 8

Leaf nodes: H,I,J,K,L,M,N,O

Internal nodes: A,B,C,D,E,F,G

1. Tree\_Quiz question 4

False. In preorder traversal of binary search, the first item printed out is not the smallest one.

Example:

Preorder traversal: 7,5,1,6,8,9

1. Tree\_Quiz question 6

Postorder traversal: left,right,root

1. Tree\_Quiz question 7

Binary search tree:

Inorder traversal sequence: 3) 0,1,2,3,4,5,6,7,8,9

1. Tree\_Quiz question 5

Array:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 3 | 5 | 10 | 8 | 7 | 22 | 11 | 13 | 20 | 24 | 16 | Null | Null | Null |

1. Tree\_Quiz question 1

Inorder, preorder and postorder traversals are only applicable for binary trees. So, this tree cannot be traversed that way.