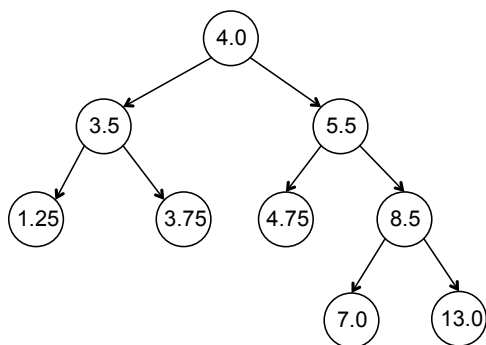


Binary Trees: Consider the following binary tree, which we will also be working with during Lab 7:



1. What special property do the nodes in this tree have?
2. Write out the *in order* traversal of this tree.
3. Write out the *post order* traversal of this tree.
4. Write out the *pre order* traversal of this tree.
5. Say your query $q = 5$. This is not currently in our binary tree. Describe a step-by-step process for inserting 5 into this tree. What is the resulting picture? What would happen if we wanted to insert the numbers: 28, 15, 72, 51, and 100?