Names: _____

CS Logins: _____

(write neatly please!)

As always, sit with a partner and work through these together.

Certain problems fit certain types of traversals especially well. With a partner/group, determine the best traversal to use for each of the following problems. You can choose from breadth-first, pre-order, post-order, in-order and Euler tour. There are certainly multiple valid ways to solve each problem, so make sure you discuss why you think that your answer is the best.

Activity #1. Decorate each node with the number of its descendants

Activity #2. Given the root of the tree, determine if it is perfect.

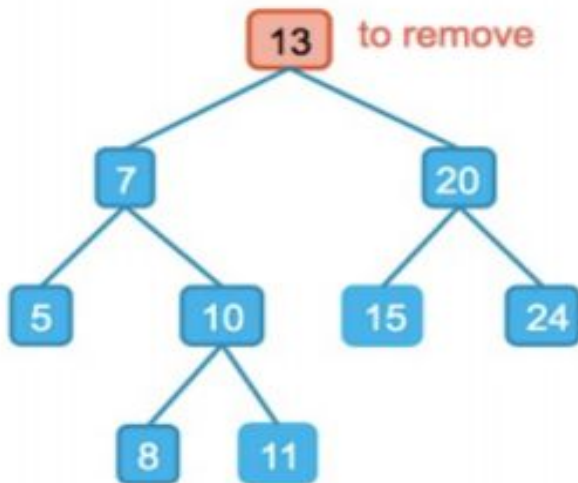As always, sit with a partner and work through these together.

Activity #3: To remove the root node, 13, we first need to find the node that will replace it. Find the root node's in-order predecessor and successor.