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1. Suppose we have the following set of numbers {10, 11, 15, 19, 23, 78, 42, 56, 18, 13, 12, 38, 47}

   a. Determine the order of insertions with this set of numbers that will result in a perfectly balanced BST.

   {19, 12, 42, 11, 15, 38, 56, 10, 13, 18, 23, 47, 78}

   b. Show the results of a preorder traversal of this tree.

   (10, 11, 12, 13, 15, 18, 19, 23, 38, 42, 47, 56, 78}

   c. Delete the root, make a diagram of the resulting tree.