**CS220 - Lesson 20 – Tree Worksheet**

The Lesson 19 worksheet asked you to determine the amount of data in a binary tree at each level of the tree, and for the entire tree to each level. Perform the same analysis for a **ternary** tree. Determine a generalize formula for the number of nodes at each level of the tree and for the total tree based on the height of the tree.

Given a n-ary tree, how many possible nodes are on each level of the tree and in the total tree?

How many different type of nodes are in a 2-3-4 tree (including internal and leaf nodes)?

An internal node always has one more child than the number of keys. True or False?

Insert G into the 2-3-4 Tree shown below.

