1. Using the textbook or the Internet, define the following terms in the context of binary trees:
root -
child -
leaf -
parent -
ancestor -
depth -
2. What is the smallest number of levels required to store 10 nodes in a binary tree?
3. What is the smallest number of levels required to store 100 nodes in a binary tree?
4. What is the smallest number of levels required to store 100,000 nodes in a binary tree?
5. Fully explain how you arrived at your answers for \#2 -4 above.
6. What is the smallest and the largest possible number of leafs in a binary tree containing exactly 6 non-leaf nodes?
