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?