



TA's Name: _____
Section #: _____

Print out, and provide your solutions to your TA in lab this week!

- (4 pts)** What is a binary search tree (BST)? Describe the properties of a BST in your answer.
- (5 pts - 1 pt/number)** Given the following sequence of numbers: 70, 3, -68, 12, 85, 100. If the numbers are inserted into a BST in the sequence provided, then what would the tree look like? Draw a diagram for the BST. Be sure to show both branches of a given node.
- (6 pts)** Using the BST constructed in question (2), answer the following questions:
 - (2 pts)** How many comparisons are required to find the number 12? _____
 - (2 pts)** How many children does the node containing the number 3 have? _____
 - (2 pts)** The tree may consist of multiple leaf nodes. Provide the number in the leaf node stored in the leftmost subtree. _____