

Name: \_\_\_\_\_

UCFID: \_\_\_\_\_

NID: \_\_\_\_\_

**1) (5 pts) ALG (Binary Search Trees)**

Consider the following tree traversals:

**Pre-order:** 7 2 9 14 16**Post-order:** 2 16 14 9 7**In-order:** 2 7 9 14 16

Is it possible for a **single** binary **search** tree to give rise to all three of those traversals? If so, draw the tree. If not, clearly explain why it's not possible.