1. List the members of your group below. Underline your name.
2. Depict the binary search tree resulting from the insertion of the following keys, in the order listed, into an empty binary search tree.

$$
42,64,47,89,29,56,69,81,74,26
$$

3. List the nodes of the tree of Question 2 in
preorder:
postorder:
inorder:
level-order:
4. Annotate each node in the tree of Question 2 by writing its depth to the left of the node and height to the right. Label the external nodes of the tree as $e_{1}, e_{2}, e_{3}, \ldots$ in preorder.
5. Determine the internal path length and the external path length of the tree of Question 2. How are they related?
6. List the nodes of the tree of Question 2 that are probed when it is searched for each of the following keys. Include probes of external nodes as well as internal nodes.

42, 89, 99, 26
7. Depict the tree resulting from the deletion of each of the following keys from the tree of Question 2.

$$
26,81,64,42
$$

