COP 3502 Suggested Program Edits/Questions: Binary Trees (Week 10 Programs)

1) Edit any of the traversals (preorder, inorder, postorder) in bintree.c to only print out the even values stored in the binary tree pointed to by the input tree node.

2) Rewrite the fine function in bintree.c **iteratively** so that it returns the depth at which the value being searched for was found in the tree (how many links from the root) OR -1 if the value is not in the tree.

3) Write a function that takes in a pointer to the root of a binary tree and returns the sum of the values stored in all of the **leaf nodes** of the tree.

4) Create a struct to store a node of a binary search tree of strings (each string can have no more than 99 characters) and write a search function that takes in a pointer to the root of such a binary search tree. (Tree should be ordered by strcmp.)

5) Write a recursive function to return the minimum value stored in any **leaf node** in a binary search tree.

Note: Function prototypes are intentionally not provided as it's good practice for students to learn how to create their own function prototypes, given a general description of a task.