**CMSC 250 – Algorithms Fall 2024**

HW 5 - Trees DUE: Midnight Fri Oct 4 on Moodle

Do at least 4 of the following problems. At least one must be >= 5kyu. At most one can be 7kyu. Pick problems that you don't know how to do, so that you will learn something that you can include in the next reflection.

Remember to click on the Submit button if you solve a problem successfully. You do not have to put your function definition in this document.

1. Xmas Tree (7kyu) [www.codewars.com/kata/577c349edf78c178a1000108](https://www.codewars.com/kata/577c349edf78c178a1000108/python)
2. Binary Tree Search (7kyu) [www.codewars.com/kata/5acc79efc6fde7838a0000a0](https://www.codewars.com/kata/5acc79efc6fde7838a0000a0/python) DONE
3. Finding the Incorrect Value in a Binary Tree (6kyu) [www.codewars.com/kata/63f13a354a828b0041979359](http://www.codewars.com/kata/63f13a354a828b0041979359) DONE
4. Find amplitude of a binary tree (6kyu) [www.codewars.com/kata/55eab8c5a15df752cc00002b](http://www.codewars.com/kata/55eab8c5a15df752cc00002b) DONE
5. The Binary Tree, or There and Back Again (6kyu) (Only try this one after reading L07 on BST and AVL Trees) [www.codewars.com/kata/5a6de0ec0136a1761d000093](http://www.codewars.com/kata/5a6de0ec0136a1761d000093)
6. Tree to list (5kyu) [www.codewars.com/kata/56ef9790740d30a7ff000199](http://www.codewars.com/kata/56ef9790740d30a7ff000199)
7. Fun with trees: is perfect (5kyu) [www.codewars.com/kata/57dd79bff6df9b103b00010f](http://www.codewars.com/kata/57dd79bff6df9b103b00010f/python)
8. Fun with trees: array to tree (5kyu) [www.codewars.com/kata/57e5a6a67fbcc9ba900021cd](http://www.codewars.com/kata/57e5a6a67fbcc9ba900021cd/python)
9. Binary Tree Traversal (5kyu) [www.codewars.com/kata/5268956c10342831a8000135](http://www.codewars.com/kata/5268956c10342831a8000135/python)
10. Sort binary tree by levels (4kyu) [www.codewars.com/kata/52bef5e3588c56132c0003bc](http://www.codewars.com/kata/52bef5e3588c56132c0003bc) DONE