COP3530 17F Project 2

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By submitting this document, I affirm that all the work submitted is my solely my own and that in completing this project I did nothing contrary to either the spirit or the letter of the UF Honor Code

Section I

	BST LE AF	BST RO OT	BST RA ND	AVL	HASH O PEN	HASH E
My template class has the required name, file extension, and template parameters. [y/n]	у	у	у	у	n	n
My template class was implemented <i>efficiently</i> using the required technique as described in the project description. [y/n]	у	у	у	у	n	n
I have implemented and throughly tested each of the required methods and they all behave correctly. [y/n]	у	у	у	у	n	n
AVL-based map only: I have throughly tested and verified that at the completion of an insertion/removal that the tree and all of its subtrees are AVL balanced.	_	_	_	у	_	_
I have implemented and throughly tested each of the Group 1 methods and they <i>all</i> behave correctly (bonus). [y/n]	n	n	n	n	n	n
I have implemented and throughly tested <i>efficient</i> iterators (both const and non-const) over a map instance's data and my map supports the bonus Group 2 methods iterator creation operations (bonus). [y/n]	n	n	n	n	n	n
I have verified by testing that a const instance of my map class and the data it holds cannot be modified, either through the map operations nor via iterator over the map's elements. [y/n]	n	n	n	n	n	n
I wrote my tests using CATCH. [y/n]	n	n	n	n	n	n
I have verified my map class is memory-leak free using valgrind. [y/n]	n	n	n	n	n	n
I certify that all of the responses I have given for this list class are TRUE [HP]	у	у	у	у	у	у

Section II

I learned how to abstract and implement different kinds of binary search tress! This assignment though it was at the very end of the class further solidified my knowledge of nodes and pointers. I had to draw out the paths a lot for this one. I did not have enough time to implement the catch and do its testing and did not finish the move and copy constructors for each class. Sorry about this, but I understand BSTs a lot better after completing this project. Thank you for lessening the requirements for this project! If only I had more time for this project, I could have done a lot better! Furthermore, I created one main for each testing so if the output looks weird just know it is for all the classes as I did not have to thoroughly check each class.

Section III

I have the test file but it wont run because im missing my compare function in them. Forgot to do them. But they should work if implemented