

Name (print) \_\_\_\_\_

Asgn # 5 Due Tues Nov 25

Dr. Kaminski - you have my word that:

1. I wrote this entire application myself in accordance with the guidelines in the course policies & syllabus and university policies of what's considered acceptable student academic conduct. Any code (longer than a couple lines) used in this assignment which was created by someone else (even if changed slightly) or was written jointly with someone else is both clearly attributed (in a comment in the code) and described on the **BOTTOM OF THIS COVER PAGE**.
2. The program code attached here **did** actually produce the data file which is attached here.
3. There was no editing of the data file after the attached program produced it (except perhaps the font, font size and/or page-orientation for printing).

Signature \_\_\_\_\_

**Final score for asgn is outputPoints MINUS the negative programming points:** \_\_\_\_\_ (you can calculate this)  
***YES, even if OUTPUT is totally correct, you could get 0 points for asgn if program didn't follow the specs!***

----- for GRADER (below) -----

\_\_\_\_\_ **OUTPUT (Log.txt) - on a scale of 0-100****Dear Programming Grader: Here's what to grade regarding "programming": (write MINUS POINTS for each)**\_\_\_\_\_ **Used program structure specified** (& each module only does what it's supposed to do & calls only whom it's supposed to):

A SINGLE PROGRAM, where main method is the "test driver" (i.e., DELETE &amp; for loop to...)

A procedural CLASS for UserApp (with userAppMain method as "the controller")

CodeIndex OOP class (all BTree handling done in here, or in additional optional class)

ActualData OOP class

additional classes are optional

(NO → → -10 to -30 points, depending on severity of problem)

\_\_\_\_\_ **Has these 3 methods (in CodeIndex class) with these names:** **public selectByCode,**

(NO → → -15 points)

**private readOneNode, private searchOneNode**\_\_\_\_\_ **readOneNode reads in an entire binary node (somehow), and does "nothing more, nothing less"**

(NO → → -15 points)

**and does NOT call searchOneNode**\_\_\_\_\_ **searchOneNode searches the ONE node which is ALREADY in memory using a loop (NOT an if/else if/else if/ ...), returning . . . as appropriate, and does "nothing more, nothing less" and does NOT call readOneNode**

(NO → → -15 points)

\_\_\_\_\_ **Explicitly used 5 or 8 or 9 anywhere** (instead of using m or m-1 or m-2, as appropriate) **or had 3 different sets of methods or code chunks to handle the 3 different CodeIndex files because they had different M's**

(YES → → -20 points)

\_\_\_\_\_ **Used LINEAR SEARCH of the Actual Data File?** (vs. using CodeIndex to find targetCode, then use DRP)

(YES → → -100 points)

\_\_\_\_\_ **Used LINEAR SEARCH of the BTree File itself?** (vs. using proper BTree Search)

(YES → → -100 points)

\_\_\_\_\_ **Read ENTIRE BTree file into MEMORY?** (vs. just root to target (or leaf) path of nodes for that particular search)

(YES → → -25 points)

\_\_\_\_\_ **Used an ASCII/TEXT version of the CodeIndex files?** (vs. 1 of the 2 sets of BINARY files from website)

(YES → → -25 points)