SENG1120/6120 – Data Structures Marking sheet – Assignment 3 – Sem 2, 2021

STUDENT NAME: Chen, Wei MARKED BY: JP

STUDENT NUMBER: c3355372

DEMO:

- A. Program compiles and works correctly with the files provided, and submitted on time (-1.5 per day)
- B. HashTable correctly uses LinkedList Buckets

A: Total (14.0 / 15.0) B: Bonus (0.0 / 1.5)

REMOVE MARKS IF:

- Code leads to memory leaks during execution (-0.5 /-1.0)
- Lack of / wrong use of macroguards (0.0 /-1.0)
- Lack of / wrong use of destructors (0.0 /-1.0)
- Lack of const qualifiers (0.0 /-1.0)
- Lack of documentation in the code (0.0 /-2.0)
- Lack of templates (0.0 /-5.0)
- Declaration of temporary variables as member variables of the class (0.0 /-1.0)
- Lack of use of dynamic memory allocation in BTNode/BSTree (0.0 /-10.0)
- Use of friend qualifier (0.0 /-2.0)
- Violation of encapsulation / information hiding (0.0 /-5.0)
- Correctness of submission, filenames and format (0.0 /-5.0)
- Concrete implementation in header file (and not in .cpp) (0.0 /-2.0)
- Lack of use of recursion for BSTree functions, etc. (0.0 /-3.0)
- Any other issues (0.0)

C: Total Deductions (-0.5)

FINAL MARK [MIN (A+B+C, 15.0)]: 13.5

Comments:

Compiles and runs, with issues

- -1 for incorrect BSTree total population > 10m: got 1080787022, should be 663128227.
- -0.5 for memory leak: BSTree destructor deletes only the root node, not the whole tree