**CS 280 - Programming Assignment Hashtable**

**Information**

* [Handout](Handout.docx)
* ChHashTable: [Text](ChHashTable.h)
* Helper functions:
  + Interface (support.h) [Text](support.h)
  + Implementation (support.cpp) [Text](support.cpp)
* An example driver program: [Text](driver-sample.cpp)
* Some sample output from the driver is provided below. Before attempting to implement this assignment, **make sure you understand every line of output.** If you don't understand exactly how this output was arrived at, you will have a very difficult time doing the assignment correctly.

Outputs:

* + Output from: [Test1(&HashingFuncs[UNIVERSAL]);](output-test1-universal.txt)
  + Output from: [Test2(&HashingFuncs[UNIVERSAL]);](output-test2-universal.txt)
  + Output from: [Test3(&HashingFuncs[UNIVERSAL]);](output-test3-universal.txt)
  + Output from: [Test4(&HashingFuncs[UNIVERSAL]);](output-test4-universal.txt)
  + Output from: [Test5(&HashingFuncs[UNIVERSAL]);](output-test5-universal.txt)
  + Output from: [Test6(&HashingFuncs[UNIVERSAL]);](output-test6-universal.txt)
  + Output from: [Test7(&HashingFuncs[UNIVERSAL]);](output-test7-universal.txt)
  + Output from: [Test8(&HashingFuncs[UNIVERSAL]);](output-test8-universal.txt)
  + Output from: [All tests (UNIVERSAL)](output-all-universal.txt)
* Sample command lines
  + Microsoft: (stress tests: replace **/MTd** with **/MT /O2**)

cl -Fems.exe driver-sample.cpp support.cpp ObjectAllocator.cpp /EHa /Za /W4 /WX /MTd /D\_CRT\_SECURE\_NO\_DEPRECATE

* + GNU:

g++ -o gnu.exe driver-sample.cpp support.cpp ObjectAllocator.cpp -Wextra -Wall -pedantic -Wconversion -O2

Borland:

bcc32 -v -vG -vi- -w -w-8026 -ebor.exe driver-sample.cpp support.cpp ObjectAllocator.cpp

* [Dummy OA](dummy_oa.zip) Dummy ObjectAllocator to use for this assignment.

**Simple GUI for Viewing**

* [Download executable](ChHashTableDemo.exe)

The GUI shows the hash values of the keys as you move the mouse over them. Makes it easy to see where the keys will be inserted.