|  |  |  |  |
| --- | --- | --- | --- |
| TITLE | FUNCTION NAME | DESCRIPTION | RESULT |
| set value | set\_value() | A single valid cache get gives the correct value | PASS |
| overwrite value | overwrite\_value() | Overwriting a previously cached key with a new value causes future get operations to return the new value. | PASS |
| get empty | Get\_value\_from\_empty() | Performing a get on a non-cached key gives NULL | PASS |
| oversize value | oversize\_test() | Attempting to put a value with a size larger then the table means the value is not stored. | PASS |
| delete value | delete\_value\_test() | Deleting a key-value pair causes future gets on the key to return NULL | PASS |
| delete then replace | delete\_and\_replace() | Deleting a key-value pair and performing a valid set with that key and a new value causes future get commands with that key to return the new value | PASS |
| delete empty | delete\_empty() | Deleting a non-cached key and then using get on the key returns NULL | PASS |
| value size | value\_size\_test() | Performing set on a value with given size s and then performing get sets the input size variable to s. | PASS |
| space used | space\_used\_update() | Adding a value of size n to the cache increases space\_used by n. | PASS |

HW3 results: By Grant Quattlebaum and Naomi Boss

PART 1

PART 2:

Marika and Jillian:

No issues with linking

|  |  |
| --- | --- |
| set value | FAIL |
| overwrite value | FAIL |
| get empty | FAIL (froze terminal, required Ctrl-Z) |
| oversize value | FAIL (froze terminal, required Ctrl-Z) |
| delete value | PASS |
| delete then replace | FAIL |
| delete empty | PASS |
| value size | PASS |
| space used | PASS |

Henry Blanchette and Noah Koster:

When compiling, I needed to change the line

#include <cache.h>

in the cache.cpp file to

#include “cache.h”

|  |  |
| --- | --- |
| set value | FAIL |
| overwrite value | FAIL |
| get empty | FAIL |
| oversize value | FAIL |
| delete value | FAIL |
| delete then replace | FAIL |
| delete empty | FAIL |
| value size | PASS |
| space used | PASS |

Tanmay:

Tanmay wrote his code in C, so he supplied c++ code to allow my c++ tests to function. The initial code from Tanmay’s github failed to compile, so he supplied updated code hat allowed the tests to work.

|  |  |
| --- | --- |
| set value | FAIL, then stopped |
| overwrite value | FAIL, then segmentation faulted |
| get empty | FAIL (Segmentation fault) |
| oversize value | FAIL (Segmentation fault) |
| delete value | Segmentation fault |
| delete then replace | FAIL |
| delete empty | Segmentation fault |
| value size | Segmentation fault |
| space used | PASS |