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Structs:

“mem” struct was used to represent a memory element.

Fields for mem were the ones that were suggested in the handout.

- bool isAllocated
- size_t size
- size_t shift

Notes:

The ability to pick the hole finding algorithm can be picked in the “replacementManager.h” header file.

Extra Credit:

- Calloc was implemented
- WORST_FIT algorithm was implemented

Tests:

One test was hard-coded in replacementManager. The test is made to have different result in where memory gets allocated depending on which algorithm is picked.

To run the test. Set the preprocessor rule “EMPTY_HEAP” in the replacementManager.h” header file to 0 and compile “main.cpp” in Applications.