Alg. First project:

Custom memory allocator

<http://www2.lawrence.edu/fast/GREGGJ/CMSC270/memory_manager.html>

Singleton – object which its constructor is private in order to have just one of a kind from this object

<https://www.tutorialspoint.com/Explain-Cplusplus-Singleton-design-pattern>

example for first fit, best fit:

<https://www.youtube.com/watch?v=Pz3iTNsVJtU&feature=emb_err_watch_on_yt>

Strategy design pattern – runtime implementation for the algorithms.

Bitvector

<https://www.geeksforgeeks.org/c-bitset-and-its-application/>

should do a bookkeep array which point to nodes and a freelist array which has address and how much it is free for- use the bookkeepnode as well.

If I delete a value from the book keeping I should just change the address to nullptr.

For free doing the same if use again.

**Using a map to save the free list and update addresses and locations**