Project 2 Final Write Up

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➜ This program will create a hotel directory used for storing and sorting room information.
- ◆ Classes:
  - ● Linked list class: LinkedList.cpp & LinkedList.h
    - ○ Functions: Constructor, Destructor, Append, Prepend, Remove, Pop, Display, isEmpty, getSize.
  - ● Smart Pointer (and additional DataItem.h file for overload operators)
    - ○ Functions: Constructor1, Constructor2, Destructor, Assorted operators
  - ● HotelChain: HotelChain.cpp & HotelChain.h
    - ○ Constructor, Destructor, loadFromFile, displayLocations, displayAvailibleRooms, addLocation
  - ● Location: Location.cpp & Location.h
    - ○ Constructor, Destructor, addRoom, displayRooms, displayLocation, getLocationName
  - ● Rooms: Rooms.cpp & Rooms.h
    - ○ Default Constructor, Constructor with Room number, Destructor, getOccupied, getRoomNumber, displayDetails
- ◆ Extra files: makefile, TESTCASE.txt, rooms.txt (file that program reads from)

➜ Program flow: The user inputs an int from the menu and can choose information to view.

Final thoughts:
- ● Our initial vision was to use our idea from the last project and improve upon it with a linked list. And the final project seems to have fulfilled this purpose.
- ● We were also able to learn more about makefiles, test cases, and git. And also implement overload operators and linked lists.
- ● Our process started with figuring out what was wrong with the code from the first project and improving it. As for the rest, we each worked on our own individual parts. Although with git kraken, we sometimes ended up working on the same code. When that happens, we end up having to delete someone's work. In the future, more communication on what we are working on will be able to improve our productivity.

- The TA will be able to run the program using the makefile. And the test case should contain the possible inputs from the user.