Vault Class

HomeWork # 2

By

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***“On my honor, as a Mississippi State University student, I have neither***

***given nor received unauthorized assistance on this academic work.”***

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Data Structures

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**Analysis and Conclusions**

The homework was to create a class using linked lists that was operated by a driver that was given to us. The homework overall was very difficult and required us creating the node and linked list as well as the dweller class. I used the linkedlist and node class given to us and use tony gladius C++ book for help in my code where noted.

Analysis Questions

1. I Used a linked list class to hold my dweller and connect them to the rooms. Nodes were used for the information between dwellers and between the rooms if more than one person was used. The only list I used was room\_list to keep track of the dwellers in the room. I used a lot of if statements for the print statement so depending on the room it would print and add up the correct values.
2. Templates would have made the program easier I believe because while I was using multiple different data types, from dwellers to strings to ints. With a template it would make it easier to managae.
3. The linked list made it a little difficult in the C++ programing, the fact that you have to use two different files to implement and define things makes it very difficult. It would be more simple if you could do everything at once and all together so there is less confusion on what you have and haven’t already taken care of. The switching back and forth between the files also made it more difficult as you had to navigate two different files and file types to work through all the bugs and errors in the code.

Source Code:

Attached in submission.

