This project was challenging in figuring out the hashing and the next 4k+3 prime. This project has given me a deeper understanding of hashing, though. Also, having a deeper understanding of how helpful hashing is in situations like these. Using the class notes and lecture slides did help me immensely in understanding hashing more to implement it.

It also reintroduces topics such as reading files and LinkedList. For the file aspect, I had to research it to refresh my memory and deepen my knowledge. In that regard, I felt I couldn't read the files correctly and didn't understand why. I also feel that my project has most of the basic components necessary but tiny errors that I can't find, which is why all the tests did not succeed.

Goals for the next project and more for the future is trying to better my programming skills I have realized that my understanding of the concepts isn't the issue, but rather my skills in implementing these concepts. I understand that this class is less about programming and those are skills gained from 203, but I feel as if my skills have rusted from 203, and I need to improve on them more.

CourseDBElement

- String ID
- int CRN
- Credits int credits
- String roomNum
- String name

+ CDBE (string courseID, int CRN, int credits String roomNum String name)

+ set course (string course ID)
+ get CRN()
+ setCRN(int crn)
+ getCredits()
+ set Credits (int credits)
+ getRoomNum()
+ setRoomNum(string roomNum)
+ getName()
+ set Name (string name)
+ get ID()
+ hashCode()
+ compareTo()

Course DB Structure

+ CourseDBStructure (int n)
+ CourseDBStructure (String test int n)
+ add (CDBE element)
+ get (int CRN)
+ showall()
+ getTable Size()

CourseDB Maneger

- id
- crn
- credits
- roomNum
- instrctor

+ add (id, crn, credits, roomNum, instrctor
+ ge (int crn)
+ readfile (File input)
+ ShowAll ()