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CMSC 204

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Pseudocode

**public** **class** CourseDBElement **implements** Comparable

{

CourseDBElement implements Comparable, consists of five attributes

Public String Course ID

Public int CRN

Public int numberOfCredits

Public String roomNumber

Public String instructorName

**public** **class** CourseDBManager **implements** CourseDBManagerInterface

{

Implements the CourseDBManagerInterface that is provided.

The data manager allows the user to read the courses from a file or to enter the data by hand and uses an Alert to print out the database elements.

}

**public** **class** CourseDBStructure **implements** CourseDBStructureInterface

{

Implements the CourseDBStructureInterface that is provided.

will be implementing a hash table with buckets.

Public addElement

take a CourseDBElement and add it to the data structure

**int hashCode():** returns the hash code value for this Map as per the definition in the CourseDBStructure interface.

}

Throw an exception IOException

Create a Junit Test Cases CourseDBManager\_STUDENT\_Test

Lessons Learned

Working on project 4 was challenging at first and finally came across with a solution using the interfaces given and the lessons we learnt so far. It took me longer to work on the assignment since I was going through a lot right now.

The use of buckets, linked lists, hashing, and file chooser ways were the lessons we learned the most. It is a real-life problem where we can learn a lot from.

For the next projects, I will start as early as possible and work on them. I just saw project 5 posted while I was writing this. I will surely start as early as possible and ask for help.