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CS 300

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Module 3 Project 1 Milestone

Pseudocode:

**LOAD** libraries and headers

**DEFINE**  Course structure:

courseID

courseName

preCount

prelist

Constructor course

**Main()**

**CREATE** list named ‘courseList’

**GET** CSV file path from user

**IF** null, use default location

**CALL** txtParser() to get CSV file path

**CALL** validateList() to get courseList

**GET** user value to search for and store in userSearch

**CALL** printCourse() pasing userSearch

**END**

**txtParser(String)**

**CREATE** a local List named tempList

**OPEN** file in string

**LOOP** row by row until end of file

**IF** first and second string are present

**ADD** the first string to courseID

**ADD** second string to courseName

**LOOP** until file handler has no value in a column

**INCREMENT** variable *preCount* for each prerequisite found

**CONCATENATE** a local string preNames for each prerequisite

**ADD** *preCount* to struct at *preCount*

**ADD** *preNames* to structure at *preList*

**RETURN** *tempList*

**End**

searchList(String)

**CREATE**  *tempCourse* of type Course

**LOOP** through list For Each Course

**IF** *String* is the same as *courseID*

**SET** *tempCourse* to Course

**RETURN** *tempCourse*

**END**

printCourse(String)

**CREATE** *tempCourse* of type Course

**SET** *tempCourse* equal to searchList(String)

**OUTPUT** *courseID* to console

**OUTPUT** *courseName* to console

**LOOP** 0 to *preCount*

**FOR** each *Course* in *preList*

**CALL** printCourse() passing *preList*

**END**

validateList()

**CREATE** *tempCourse* of type Course

**CREATE** variable *valid* and Set to True

**FOR** Each Course

**IF** *valid* is False break

**LOOP** 0 to *preCount*

**SET** *tempCourse* equal to searchList(*preList* token)

**IF** *tempCourse* courseID is empty Set *valid* to False

**RETURN** valid

**END**