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SNHU/ CS300

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# CS 300 Pseudocode Document

// Vector pseudocode

Open the file “File Name”

Initialize an empty vector to store the courses

Declare totalPrerequisites as int

Format is set to false

If parameters are less than two

Print error course missing information, each line must have at least two parameters

Else

Format set to true

For each line of the file

Strip white space from beginning and end of line

Split the line into parameters by the commas

Create new object for course for each line read

While iterate through each line

Set parameter[0] to courseNumber

Set parameter[1] to courseName

Set parameter >1 to prerequisite

Add new course object to the vector

For i in range stripping any information after 2 parameters

Prerequisites = parameter strip for [i]

Search for line that start with prerequisites courseNumber

Set found to false

For k in ranges of vector

If vector k [0] equal prerequisites

Set found to true

Break

If not found:

Print error invalid file format: “prerequisite course” + prerequisites + “does not exist”

int numPrerequisiteCourses(Vector<Course> courses, Course c) {

totalPrerequisites = prerequisites of course c

for each prerequisite p in totalPrerequisites

add prerequisites of p to totalPrerequisites

print number of totalPrerequisites

}

void printSampleSchedule(Vector<Course> courses) {

for all courses

print courseNumber and CourseName

if course have prerequisites

for each prerequisite

print prerequisites

}

void printCourseInformation(Vector<Course> courses, String courseNumber) {

**for all courses**

**if the course is the same as courseNumber**

**print out the course information**

**for each prerequisite of the course**

**print the prerequisite course information**

}

Close file