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//CS 300 Pseudocode Document

// Define a struct to hold course information

struct Course {

Strg courseNumber

Strg title

List<String> prerequisites

}

// Define a function to read data from file and populate the vector data structure

void loadCoursesFromFile(Vector<Course> &courses, String filename) {

try {

Open the file named filename

While there are more lines in the file {

Read the next line

Split the line into pieces using commas

If the line has at least two pieces {

Create a new course

Set its number and title from the first two pieces

If there are more than two pieces {

Add the rest as prerequisites

}

Add the course to the list of courses

} else {

Print an error message explaining invalid format

}

}

Close the file

} catch (FileNotFoundError) {

Print an error message to explain the file couldn't be found

}

}

// Define a function to search for a specific course and print its information

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

Set a flag to indicate if the course is found, initially false

For each course in the list of courses {

If the course's number matches the one we're looking for {

Set the flag to true

Print the course number and title

If the course has prerequisites {

Print each prerequisite

} else {

Print a message explaining no prerequisites

}

Exit the loop

}

}

If the flag is still false {

Print an error message specifying the course wasn't found

}

}