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Mod 4-3 pseudocode  
  
  
Function LoadCoursesFromFile(filename)

Open filename for reading

If file is not open

Print "Error opening file"

Exit

End If

HashTable<Course> courses

While not end of file

Read line from file

Parse line into courseNumber, title, and prerequisites

If courseNumber is empty or title is empty

Print "File format error"

Continue to next line

End If

Course course = new Course(courseNumber, title, prerequisites)

courses.insert(courseNumber, course)

End While

For each courseNumber in prerequisites of each course

If courses.find(courseNumber) is not found

Print "Prerequisite course not found in file"

End If

End For

Close file

End Function

Function CreateCourseObject(courseNumber, title, prerequisites)

Course course = new Course

course.courseNumber = courseNumber

course.title = title

course.prerequisites = ParsePrerequisites(prerequisites)

Return course

End Function

Function ParsePrerequisites(prerequisitesString)

Split prerequisitesString by ',' into prerequisitesList

Return prerequisitesList

End Function

Function PrintCourseInformation(courses)

For each course in courses

Print course.courseNumber + " " + course.title

If course.prerequisites is not empty

Print "Prerequisites:"

For each prerequisite in course.prerequisites

Print " - " + prerequisite

End For

End If

End For

End Function

// Main program flow

filename = "path/to/courses/file"

LoadCoursesFromFile(filename)

PrintCourseInformation(courses)