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CS300:DSA - Module Three Milestone – Pseudocode

01/22/2023

Southern New Hampshire University

STRUCT course //Define a structure to hold course information

STRING courseNumber //use string incase course’s numbers have letters in them

STRING courseTitle

STRING prerequisites

NewCourse function

VECTOR::LinkedList fuction

SET head and tail pointers to null

DEFINE loadCourseCSV function

INITIALIZE csv parser with csv path

TRY

IF line has at least 2 elements

FOR loop to read through file

course.courseNumber = to csv location

course.courseTitle = to csv location

course.prerequisites = to csv location to end of line

APPEND courseVector with courseNumber, courseTitle, prerequisites

CATCH

ERROR

DEF VECTOR::APPEND function

CREATE new node

IF head equals null

New node becomes the head and the tail

Increase size count

ELSE

Make current tail node point to the new node

Tail becomes the new node

Increase size count

DEF VECOTR::courseSearch function

CREATE new node special case if matching node is the head

WHILE newnode

IF courseNumber is the newnode->course.courseNumber

RETURN newnode->course

newnode goes to next pointer

RETURN

DEF NewCourse addCourse function

NewCourse newCourse //make a newCourse variable

GETLINE(cin, course.courseNumber)

GETLINE(cin, course.courseTitle)

GETLINE(cin, course.prerequisites

RETURN newCourse

DEF main fuction

WHILE loop for menu

SWITCH function

CASE1 //load course csv

loadCourseCSV function

BREAK

CASE2 //add new course

addCourse function

BREAK

CASE3 //search courses and print out

searchCourse function

IF searchCourse returns

PRINT what was found

ELSE

ERROR message

BREAK

RETURN