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Project One – Page Two

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INCLUDE General functions (algorithm, iostream, namespace)

INCLUDE CSVPARSER cpp file and MAIN cpp file

StrToDouble() Function // forward declaration to convert a string to a double

STRUCT Course // define a structure to hold course information

STRING courseID

STRING courseTitle

STRING prerequisites

Course() function

Load CSV Parser cpp

DEFINE quicksort function

SET middle to zero

IF beginning number is greater or equal to end number

RETURN

SET middle to partition function

RUN quicksort function

Class LinkedList //define class containing data members and methods

PRIVATE

DEFINE internal structure for list entries and variables

DEFINE default constructor

DEFINE Node(Course aCourse) function // initialize with a course

CREATE Node\* head and tail

DEFINE size = 0

PUBLIC

DEFINE constructors, destructors, and functions

DEFINE LinkedList::LinkedList function

INITIALIZE housekeeping variables

SET head and tail nodes to null

DEFINE LinkedList::PrintAll function //implement print logic for specific course

START at head

WHILE loop over each node looking for a match

PRINT current courseID, courseTitle, and prerequisite

SET current node equal to next

DEFINE Course LinkedLidt::PrintCourse function //print specific course

Course course; //create course

GET courseID from user

SET Node\* cur to head //special case if matching node is the head

WHILE loop for current node

IF courseID equals the current node pointing to the courseID

PRINT courseID, courseTitle, prerequisites

Current node is now the next node

IF eof reached and no match found

PRINT no match found

RETURN main() // return to the main menu