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3-3 Milestone: Vector Data Structure Pseudocode

1. *Design pseudocode to define how the program opens the file, reads the data from the file, parses each line, and checks for file format errors:*

Open File

Declare file variable

Call to open file

If call returns -1

Print error

Else

While not the EOF

Read data as string

Parse each line

If less than two parameters per line

Print error

If prerequisite does not match existing prerequisites

Print error

Close file

1. *Design pseudocode to show how to create course objects and store them in the appropriate data structure:*

createAndStore(vector Courses)

open file using file variable openFile

while not the EOF

for each line

for first and second elements

pushback first and second elements

if more than 2 elements

pushback elements

close file

1. *Design pseudocode that will search the data structure for a specific course and print out course information and prerequisites*

Search(vector courses, string course){

For all courses

If courseNumber is equal to course

Print course information

For each prerequisite of the course

Print prerequisite course information

}