# CS 300 Pseudocode Document

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CS-300-11373-M01

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May 26, 2024

3-3 Project One Milestone One Vector Data Structure

“//class to initialize variables

CLASS Course {

INTEGER Course ID

STRING Course Name

}

Reading Data from file {

OPEN FILE

IF RETURN value is -1

OUTPUT “file not found”

ELSE

WHILE not end of file

// validates each line has at least two parameters

IF less than two values in line

RETURN ERROR

ELSE read parameters.

RETURN ERROR

ELSE read parameters.

If a third parameter exists

Continue until no parameters remain

ELSE

RETURN ERROR

CLOSE FILE

}

Creating Course Objects {

Initialize Course Vector

LOOP though file

// WHILE LOOP to ensure entire file is processed

WHILE not end of file

For each line in file

For first and second value

Use pushback to add value to VECTOR

IF a third value exists

Use pushback to add value until new line

}

Search Data Structure {

Ask for user INPUT

LOOP through VECTOR

IF input is same as course ID

PRINT course information

// adds printing of prerequisite course information

FOR each prerequisite of course

Print prerequisite course information

}”