

Lab Assignment 12 - 04/16/2009

Name: _____

Section: 8:00 11:00 12:30 6:30

Problem 1: Searching With Structures

Create a source file called `students.c`. In this problem, you will define a structure called `student` with three members:

- an `int` called `id`
- a string of size 100 called `name` (Note: this will be a `char` array of size 100)
- a `double` called `gpa`

To create a program, define a `main` method to implement a program that follows these steps:

1. Create an array of 5 `student` elements.
2. Use a `for` loop to iterate over all 5 students and input the following items for each `student`:
 - (a) The `id` for the `student`.
 - (b) The `name` for the `student`.
 - (c) The `gpa` for the `student`.
3. Input a number `x` from the user.
4. Search the array of `student` entries to find the `student` with `id` equal to the number `x`
5. If a `student` with that `id` is found, output its `name` and `gpa`.
6. If no `student` is found, output "No student found matching ID `x`".

Compile your code and show the instructor the running program.