

All the students need to turn in the homework. Attach additional paper as needed.

CSCI 2170 Homework2 **Name** _____
(Due: beginning of class on Wed, Feb 2nd)

1. Given the following declaration:

```
struct studentType
{
    string  name;
    int     credits;
    float   gpa;
    string  major;
    char    gender;
};
const int SIZE = 400;
studentType allStudents[SIZE];
```

(a) Write C++ code that assigns “Computer Science” as the major of **all the students** represented in array “allStudents”.

(b) Write the complete definition of a **value returning function** **CountSophomore** that counts the number of sophomore students in all the students. A student is considered a sophomore if (s)he has completed between 30-59 credits of course work. The array “allStudents” and the number of students in the array are parameters of this function.

(c) Write the complete definition of a **void function** **SwapStudents** that exchanges the position of two students in an array of students. The array “allStudents” and the index of the two students to be swapped are the parameters of this function.