CS 100 Exam Two - Coding - Spring 2018

You are not allowed to use the Internet while coding the two problems below.

You can log into the cs-intro server to test your programs if you wish.

When you have finished coding your problems, submit your exam via Blackboard

Create a directory called exam2 using mkdir exam2 and move into that directory with cd exam2

Complete the two programs shown below:

Name this program one.c – This program reads integers from standard input until end-of-file (control-d) and writes them to either the file good or the file bad. Write the first number to the file good. After that, as long as the number is larger than the one it read before (the previous value), write that number to the file good. Otherwise, write that number to the file bad. Two sample executions are shown below.

```
./a.out
Enter your data:
1 3 5 2
3 5
3 1 9 2
ctrl-d
```

good	bad
1	2
3	3
5	1
3	2
5	
9	
5 3 5	1

./a.out				
Ent	er	you	ır	data:
20	15	10		
30	40			
30	20	90	1	
ctrl-d				

good	bad
20	15
30	10
40	30
90	20
	1

2. Name this program two.c – This program reads two strings from standard input and uses a function to determine the number of common characters at the start of the two strings. For example, if the first string is computer and the second string is complex, then these two strings have 4 (four) initial characters in common. Likewise, if the two strings are Alabama and Auburn, then the two strings have 1 (one) initial character in common. Finally, cat and catalog would have 3 (three) initial characters in common. This function is case-sensitive, upper-case letters do not match their equivalent lower-case letter (the letter A is different from the letter A).

Use the template for **two.c** that is shown below to code your solution (write the function **commonStart**).

Submit your exam

- First, on your local machine, compress your exam2 directory into a single (compressed) file.
- Second, once you have a compressed file named exam2.zip, submit that file to Blackboard.