

**CS 1713**  
**Introduction to Computer Programming II**  
**Bonus Assignment**  
**Due Wednesday April 26**

1. (100 pts) Download the file *assignbonus.c* from class webpage and reduce the size of the file without changing the functionality. The two programs should do the same thing but the new file should be shorter.

To find the number of characters in the file use the *wc* command as follows

```
wc -c assignbonus.c
```

Original file has 895 characters in it. You can use the following techniques to reduce the size.

- Remove comments.
- Declare all variables of one type on one line.
- Reuse variables instead of declaring new variables.
- Use operators like *+=* instead of using *+* and *=*
- Other things that you can think of.

Once you do all the reductions you can think of, look at the size of the executable file for the original file and new file and see how they differ.

*Submit your program electronically using the blackboard system*

*The program you submit should be your own work. Cheating will be reported to office of academic integrity. Both the copier and copiee will be held responsible.*