CS 429 Homework 0

Name: _____ Section #: _____

Instructions: For this homework, you don't need to submit the C code, since it's all given to you, but do run it. Copy the output, answers, and assembly (where called for) into a file and submit that on Canvas. Make sure that your name is clearly provided in any files you submit.

The following question refer to the slides on C.

1. Execute the program on slide 14 (list args) with * in the argument list. Show what happens?

2. Execute the program on slide 16 (list env). How many environment variables are there on your machine? How many can you identify?

3. Use `getenv` to identify your working directory (PWD).

4. Generate assembly for the program on slide 20 (sum). How does it differ from what's shown in the slides?

5. Compile `sum` with the -v and -c flags and look at the output. What is listed as the Target?

6. Compile the `sum` program and then use objdump to disassemble it. How does it differ from the assembly shown in the previous step?

7. Compile and run the malloc example near the end of the slides.