CSC373 Week 1 Class 1 Activity - J. deBettencourt - from 9/8/16 class

The objective of this assignment is to assess if all students have a common, publicly available workspace that can be used to compile and debug C programs. By using a common and publicly available tool, resolution of programming problems will be easier for both the students and the instructor.

This activity has the following tasks:

1. Register for a free account with the Cloud9 service.

2. Startup a Cloud9 workspace built on the "Blank" workspace model.

3. Copy the files: common.h and threads.v0.c (available in the code.intro.tgz archive in D2L) to your Cloud9 workspace. Note that common.h is a 'header' file containing some common functionality required by C programs from the OSTEP site.

4. Compile the threads.v0.c program using a bash command line like:

gcc -o threadso threads.v0.c -Wall -pthread

5. Run the program with a bash command like:

./threadso nnn

Where nnn is some number. Try starting with 100 and increment by powers of 10 say, 1000, 10000, etc.

Keep running the program at higher levels and observe when the thread closed count becomes erroneous (correct value should be 2 \* nnn; 200 if nnn is 100; 2000 if nnn is 1000 etc.).

6. Document your completion of this activity by submitting a Word document with the following:

Name

Class Number and Section

Date

Screenshot of the Cloud9 desktop showing your execution results in the bash pane.

Brief discussion of your findings from this exercise (when did the program start to fail?).