cs201 – sum 2020

Lab 6 – Using Fork() Function (15 points)

For information on how to do this lab, see the page on "Exceptional Flow Control Part I" in the week 6 module.

Note that there is no coding in this lab. You will write up your answers in a text or docx file and submit them to the assignment folder for lab 6 by the due date.

NOTE: If you want to, you can draw a process graph to explain your answers.

Part A: **Simple fork (3 points)**

The file one.c contains a simple example using fork(). Before running the program, examine it and write down all the valid output sequences of 'red' and 'blue'. After you have entered your answer, run the "one" program several times to confirm your answer. Was your initial guess correct? Why or why not?

Part B: **Still simple fork (3 points)**

The file two.c contains another example using fork(). Before running the program, examine it and write down all the valid output sequences of 'red', 'blue', 'yellow' and 'green'. Enter these in your answer file. After you have entered your answer, run the "two" program several times to confirm your answer. Was your initial guess correct? Why or why not?

Part C: **Too forky (4 points)**

The file three.c contains another example using fork() but this time it has lots of extra forks. Before running the program, examine it and write down all the valid output sequences of 'red', 'blue', 'yellow' and 'green'. Enter these in your answer file. After you have entered your answer, run the "three" program several times to confirm your answer. Was your initial guess correct? Why or why not?