**Trent University: Operating Systems (COIS3320)**

**Dr. Bin Guo**

**Lab 4: Processes**

**Outline**

Write a C program that corresponds to the below process tree. You are to use the fork()

system call to create child processes. Additionally, your program should ensure that the

parent processes wait for their child processes to complete. As you can see there are a total

of **9** processes (including the parent process).

A diagram of a network

Description automatically generated

**Output:**

1. Your program must print the pids of all the processes created on the screen.

2. Your program must ensure that duplicate pids are not printed.

**Sample Output: ./lab3**

--------------------------------------------------------------------------------------------------------------------

7615

7616

7617

7618

7619

7620

7621

7622

7623