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Intro to OS

Lab 2

1. `*echo hello > /dev/ttys000*`
2. A deterministic program is one that produces the same output given the same input every time it is run. A nondeterministic program, on the other hand, produces different outputs given the same input each time it is run. Thus, a deterministic program’s output can be predicted.   
     
   The outputs “bacd” or “abcd” are possible. “a” and “b” are non-deterministic since the child process “a” can be written before or after the parent process “b” executes. However, “c” will always execute before “d” since the parent process “d” waits for the child process “c” to execute before executing.  
     
   In practice, a pattern does emerge when running the program multiple times. For my machine, “bacd” is continuously outputted. However, this is a result of the scheduler's bias rather than a feature of the code itself. The output will be either "bacd" or "abcd" due to the scheduler's handling of the processes.