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12 In a system where round robin is used for CPU scheduling, the following is true when a process cannot finish its computation during its current time quantum

- a. The process will terminate itself.
- b. The process will be terminated by the operating system.
- c. The process's state will be changed from running to ready.
- d. None of the above.

13 (multiple choices) Suppose that a process is executing $\text{counter} = \text{counter} + 1$ while another process is executing concurrently and independently $\text{counter} = \text{counter} - 2$, where the counter is a variable shared between the two processes and is accessed only by the two statements. Given that the value of counter is five before execution, the possible value(s) after both processes finish their statement are

- a. Three.
- b. Four.
- c. Five
- d. Six.

14. In the UNIX file system $\text{RWX} = 001$ specifies which of the following accesses?

- A. Administrator access
- B. Owner access
- C. Group access
- D. Other access

15. How may software trigger an interrupt?

- A. Making a system call
- B. Sending a signal on an interrupt line
- C. Stacking program counter
- D. Finishing the execution of current instruction

16. Which of the following does NOT contribute to the improvement of CPU efficiency by the reduction of the speed disparity between the CPU and I/O devices?

- A. Buffering
- B. Simultaneous Peripheral Operations On-Line
- C. Multiprogramming
- D. Pipelining

17. Which of the following schedulers control/controls the *degree of multiprogramming*?

- A. Short-term scheduler
- B. Long-term scheduler and Medium-term scheduler
- C. Medium-term scheduler and Short-term scheduler
- D. Long-term scheduler