From last time

Does each of the following appear in processes, programs, both, or neither?

- instructions
- read-only data
- registers
- a stack
- a heap
- network connections
- system calls
- a shared data area

Program (loadable file): instructions (which refer to all the rest), read-only data (& loader info to set up stack etc.)

Process (running): everything (?)

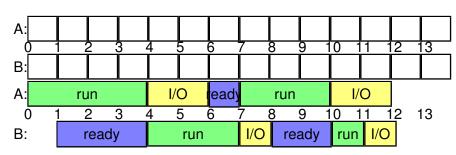
(system calls only as instances of instructions, in the thread of computation)

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Question - FCFS scheduling

Process A arrives at time 0: 4 time-units CPU, then 2 I/O, then 3 CPU, then 2 I/O

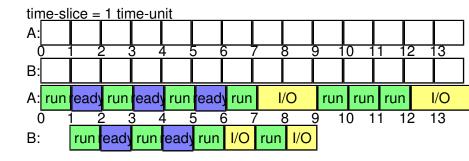
Process B arrives at time 1: 3 time-units CPU, then 1 I/O, then 1 CPU, then 1 I/O



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Question - Round-Robin scheduling

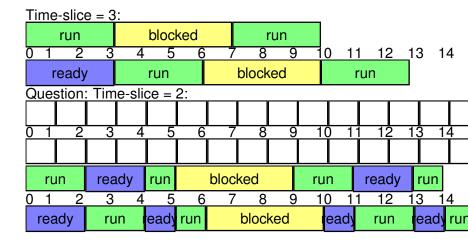
Process A arrives at time 0: 4 time-units CPU, then 2 I/O, then 3 CPU, then 2 I/O
Process B arrives at time 1: 3 time-units CPU, then 1 I/O, then 1 CPU, then 1 I/O



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Length of time-slice?

Two identical processes: 3 time-units CPU, then 4 time-units I/O, then 3 time-units CPU



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