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)
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
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

time-slice = 1 time-unit

A:

0 1 2 3 4 5 6 7 8 9 10 11 12 13

B:

A: run ready run ready run ready run I/O run run run I/O

0 1 2 3 4 5 6 7 8 9 10 11 12 13

B: run ready run ready run I/O run I/O

0 1 2 3 4 5 6 7 8 9 10 11 12 13
Length of time-slice?

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

Time-slice = 3:

Question: Time-slice = 2: