GATE 2006

The arrival time, priority, and durations of the CPU and I/O bursts for each of three processes P1, P2 and P3 are given in the table below. Each process has a CPU burst followed by an I/O burst followed by another CPU burst. Assume that each process has its own I/O resource.

Process	Arrival Time	Priority	Burst Duration		
			CPU	I/O	CPU
P1	0	2	1	5	3
P2	2	3 (lowest)	3	3	1
P3	3	1 (highest)	2	3	1

The multi-programmed operating system uses preemptive priority scheduling. What are the finish times of the processes P1, P2 and P3?

(a) 11, 15, 9

(b) 10, 15, 9

(c) 11, 16, 10

(d) 12, 17, 11

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