Test case 1 (without deadlock):

PID	Arrival Time	Priority	CPU / IO Bursts
0	0	0	CPU{10} IO{30} CPU{10}
1	0	0	CPU{20}

Gantt Chart

	P0	P1	idle	PO
0	1	0 3) 4	0 50

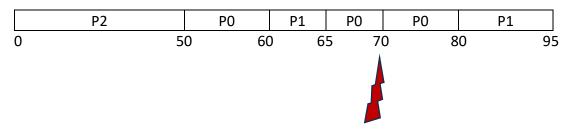
Test case 2 (with deadlock):

Assume the time quantum q = 10, and a lower priority number implies a higher priority

PID	Arrival Time	Priority	CPU / IO Bursts
0	0	1	CPU{R[1], 15, R[2], 10, F[1], F[2]}
1	0	1	CPU[5, R[2], R[1], 10, F[2], F[1]]
2	0	0	CPU{50}

Deadlocked processes: P0 and P1

Gantt Chart (assuming that deadlock detection is applied whenever a resource is requested and deadlock recovery is achieved by terminating P1, i.e., P1 should run again from the beginning)



Deadlock is detected, P1 is terminated

and resource 2 is preempted