NAMA : MDKhadafie

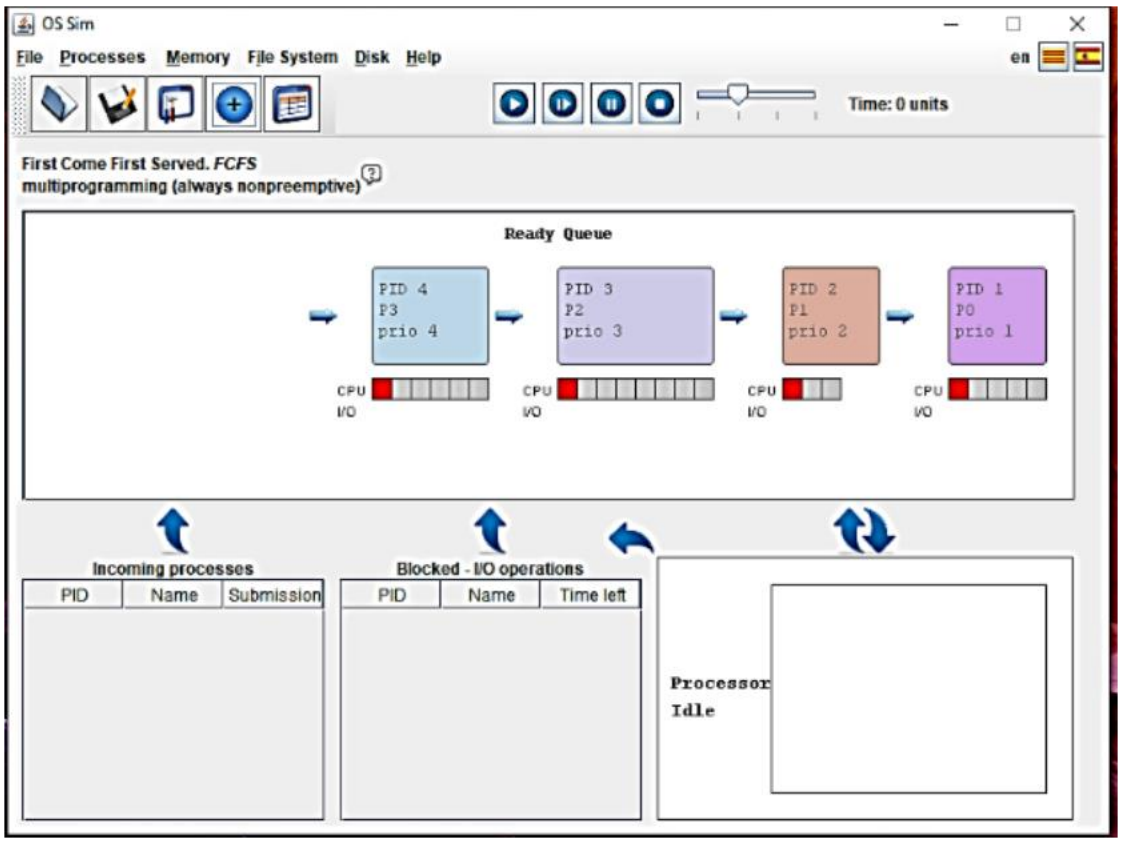
NIM : L200180112

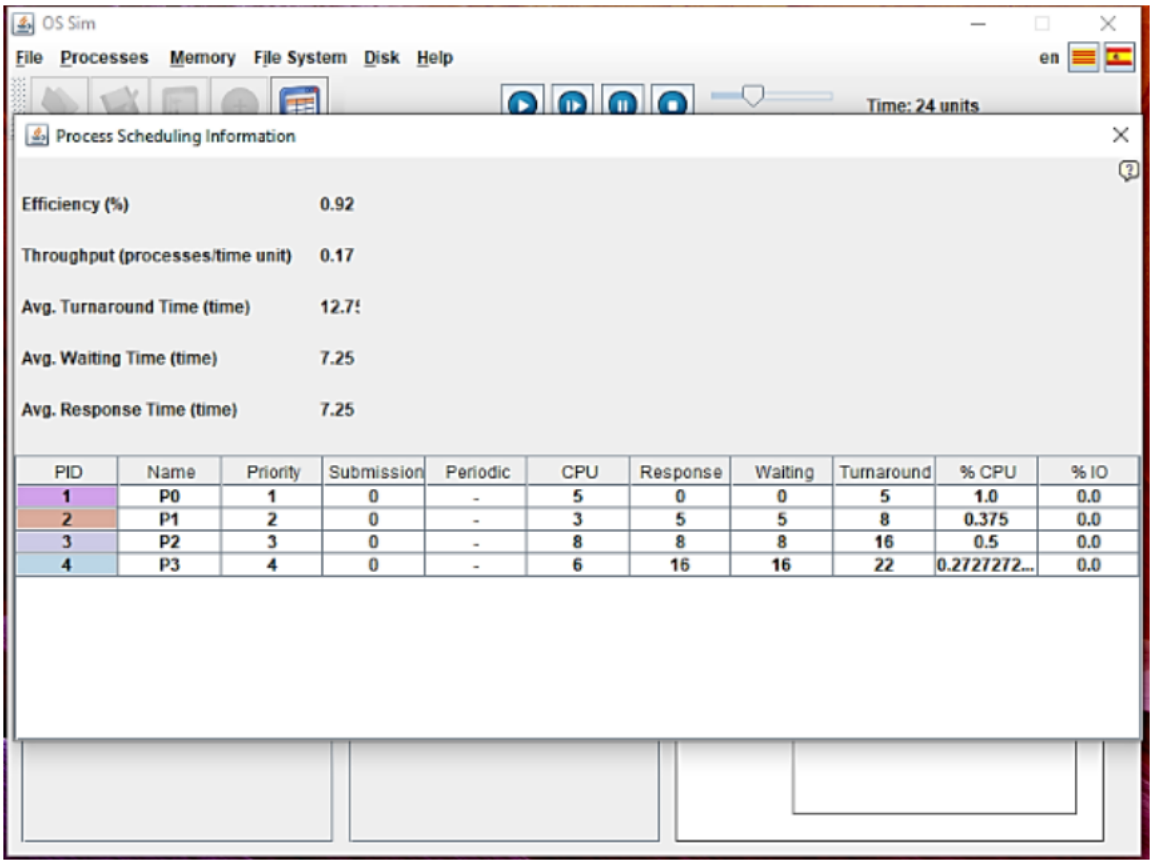
KELAS : C

Modul 11

1. FCFS

Process	Arrival Time	Burst Time	Service Time
P0	0	5	0
P1	1	3	5
P2	2	8	8
P3	3	6	16



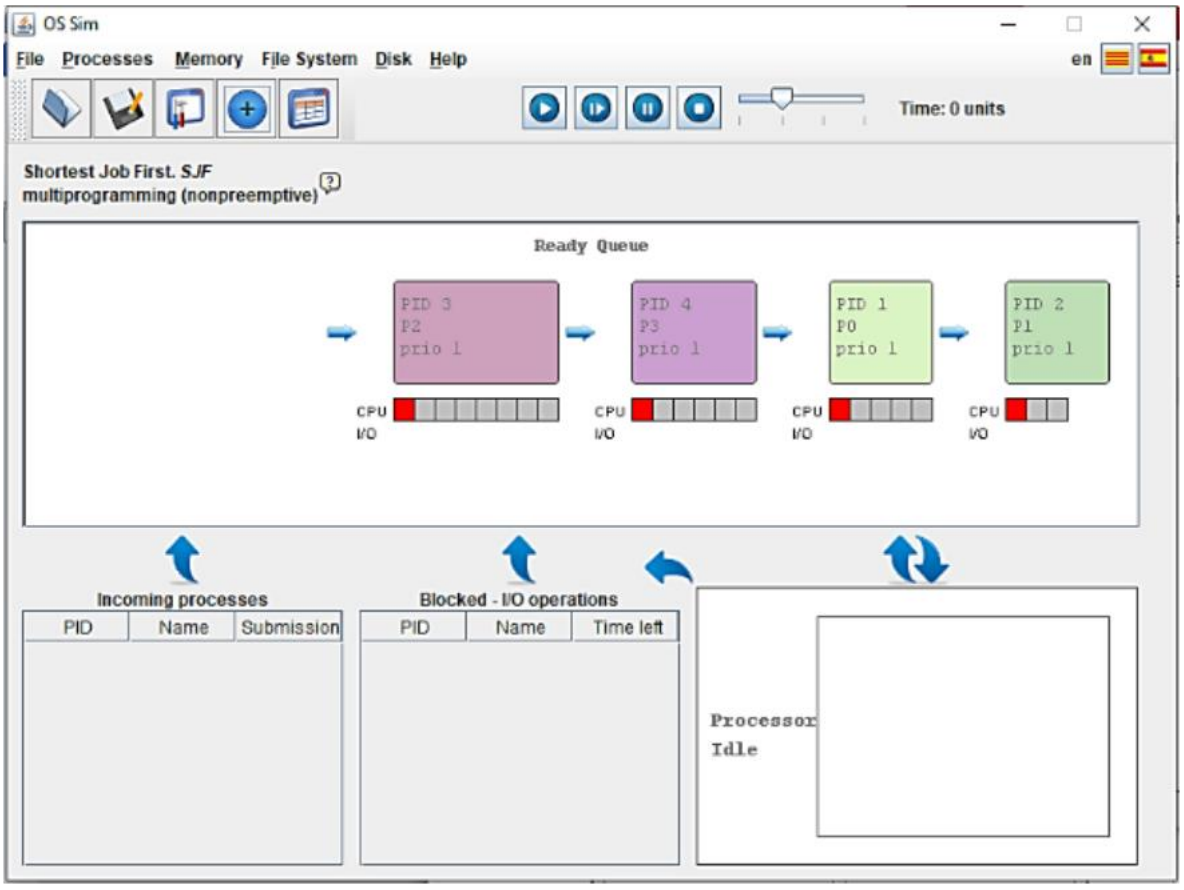


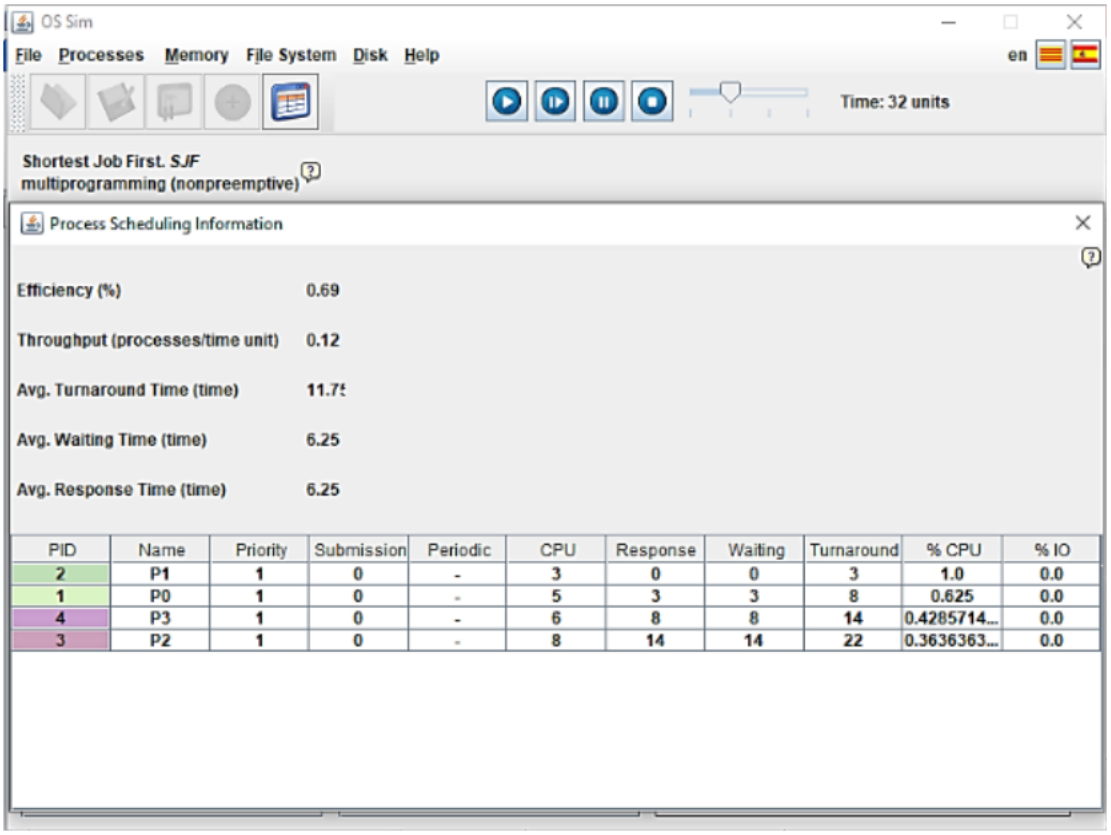
Process	Wait Time : Service Time – Arrival Time
P0	0
P1	5
P2	8
P3	16
Av wait time	7.25

2. SJF

Process	Arrival Time	Burst Time	Service Time
P0	0	5	0
P1	1	3	5
P2	2	8	8
P3	3	6	16

Non-preemptive



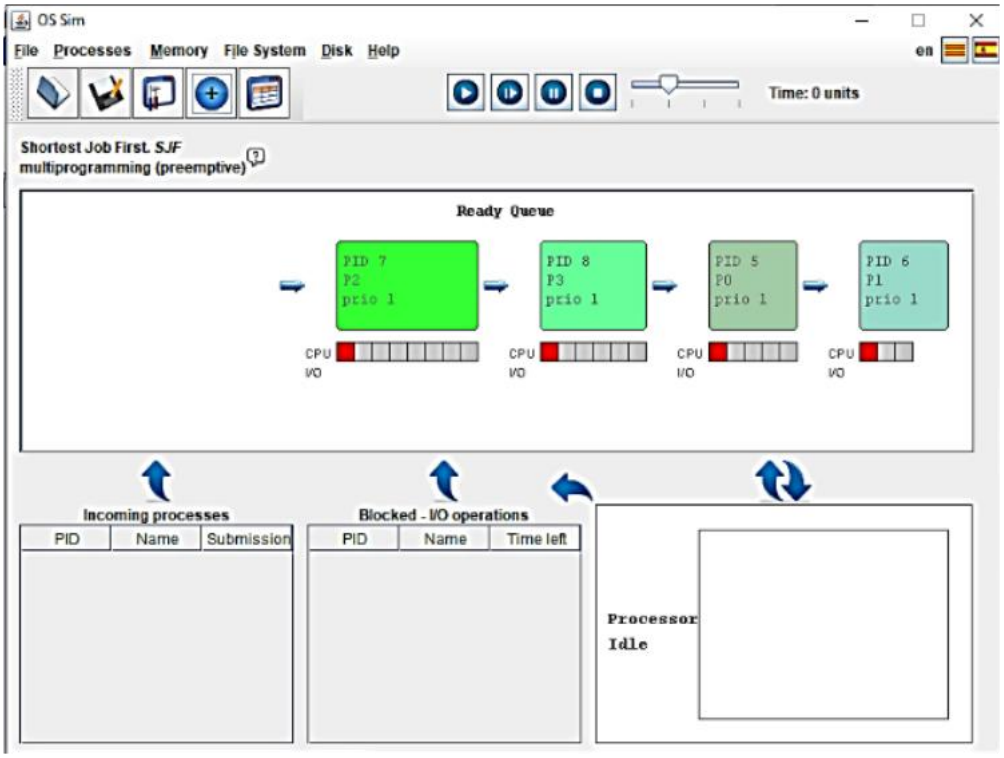


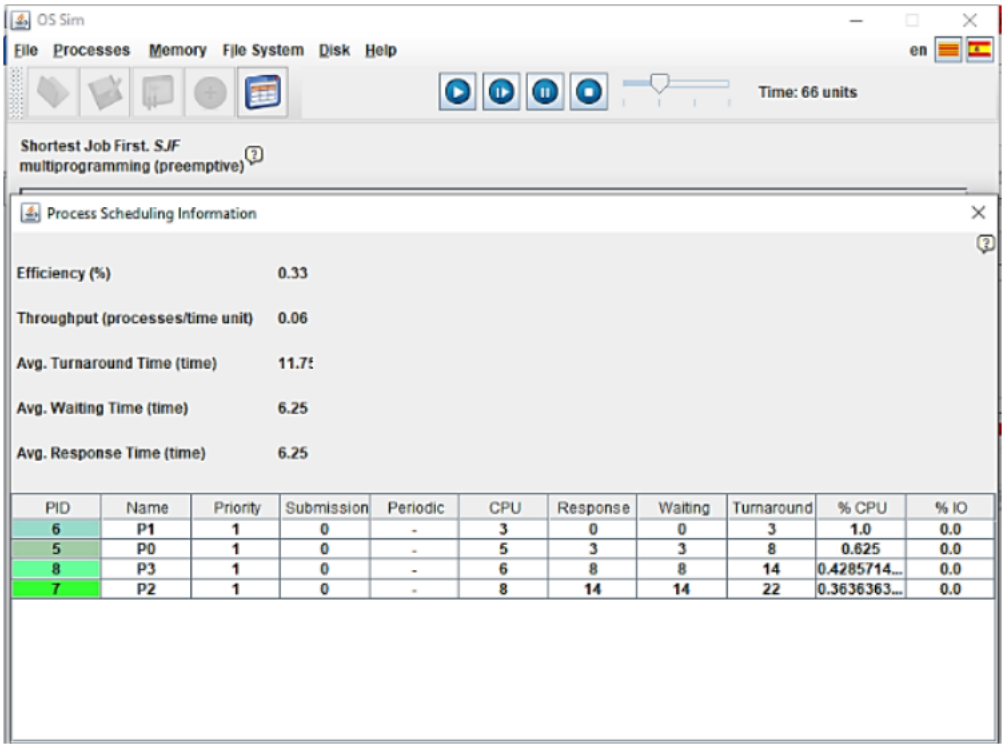
Process	Wait Time : Service Time – Arrival Time
P0	3
P1	0
P2	14
P3	8
Av wait time	6.25

Preemptive

Process	Arrival Time	Burst Time	Service Time
P0	0	5	0
P1	1	3	5
P2	2	8	8

P3	3	6	16

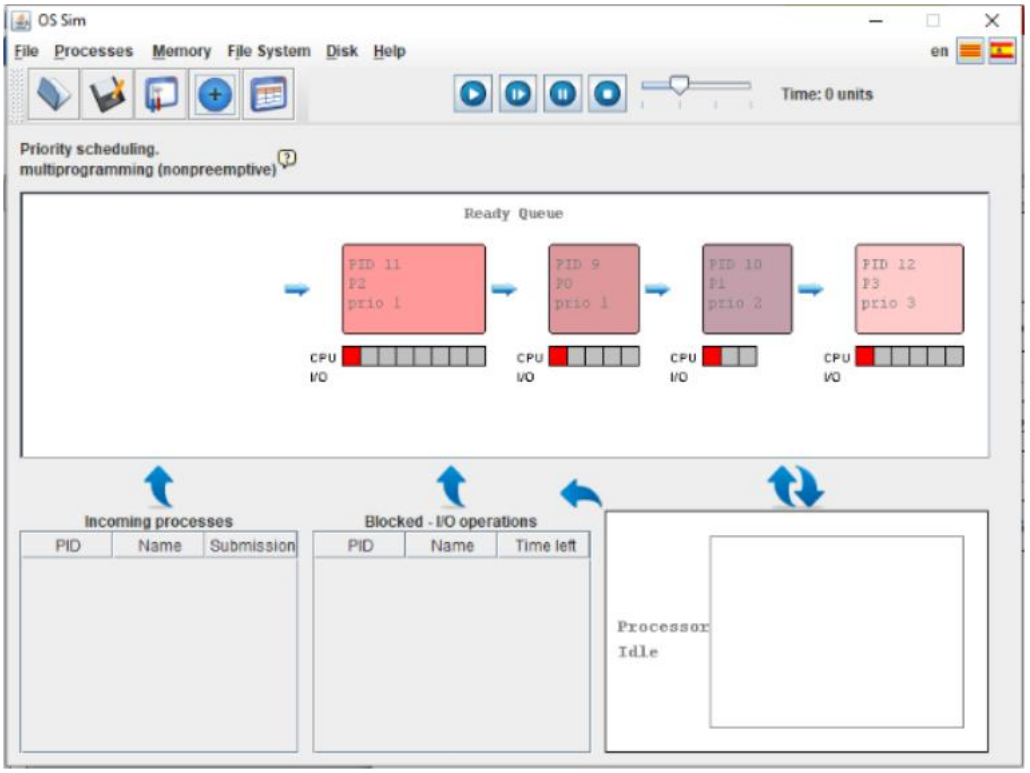

OS Sim
File Processes Memory File System Disk Help
en
Time: 0 units
Shortest Job First. SJF
multiprogramming (preemptive)
Ready Queue
PID 7
P2
prio 1
PID 8
P3
prio 1
PID 5
P0
prio 1
PID 6
P1
prio 1
CPU
I/O
Incoming processes
PID
Name
Submission
Blocked - I/O operations
PID
Name
Time left
Processor
Idle

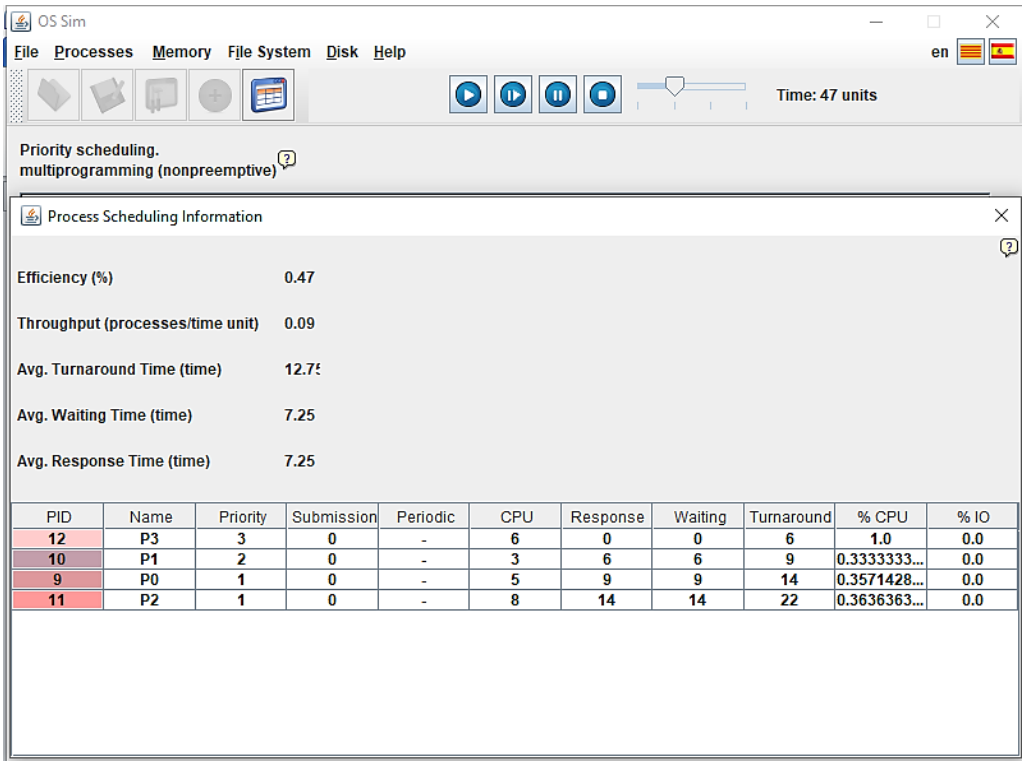

OS Sim
File Processes Memory File System Disk Help
en
Time: 66 units
Shortest Job First. SJF
multiprogramming (preemptive)
Process Scheduling Information
Efficiency (%) 0.33
Throughput (processes/time unit) 0.06
Avg. Turnaround Time (time) 11.7
Avg. Waiting Time (time) 6.25
Avg. Response Time (time) 6.25
PID Name Priority Submission Periodic CPU Response Waiting Turnaround % CPU % IO
6 P1 1 0 - 3 0 0 3 1.0 0.0
5 P0 1 0 - 5 3 3 8 0.625 0.0
8 P3 1 0 - 6 8 8 14 0.4285714... 0.0
7 P2 1 0 - 8 14 14 22 0.3636363... 0.0

Process	Wait Time : Service Time – Arrival Time
P0	3
P1	0
P2	14
P3	8
Av wait time	6.25

3. Priority

Process	Arrival Time	Burst Time	Priority	Service Time
P0	0	5	1	0
P1	1	3	2	11
P2	2	8	1	14
P3	3	6	3	5

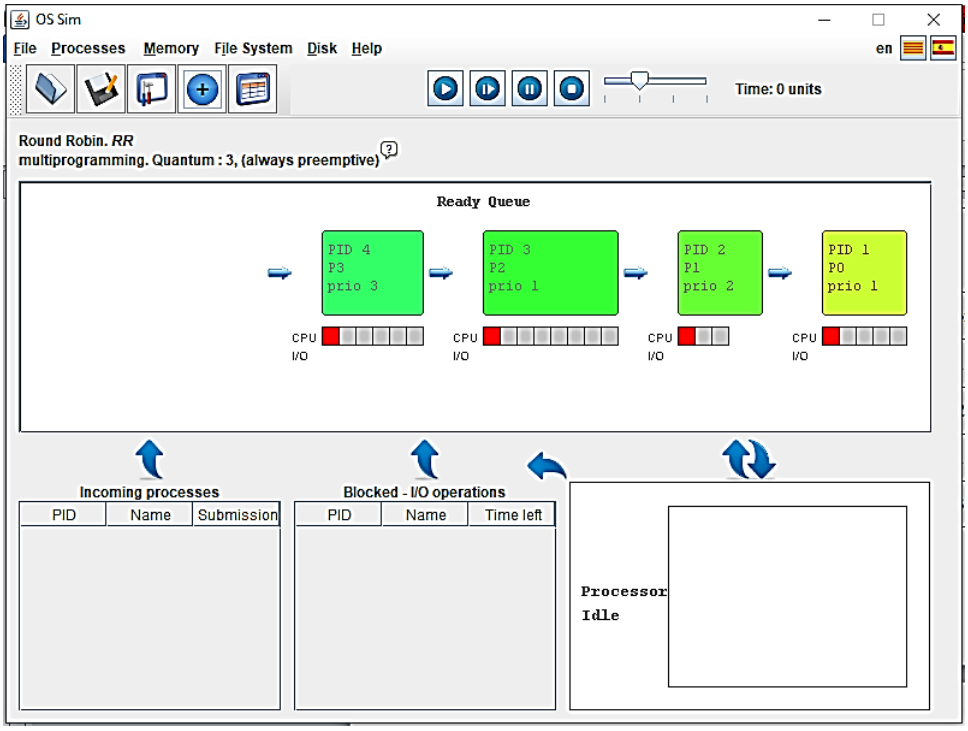


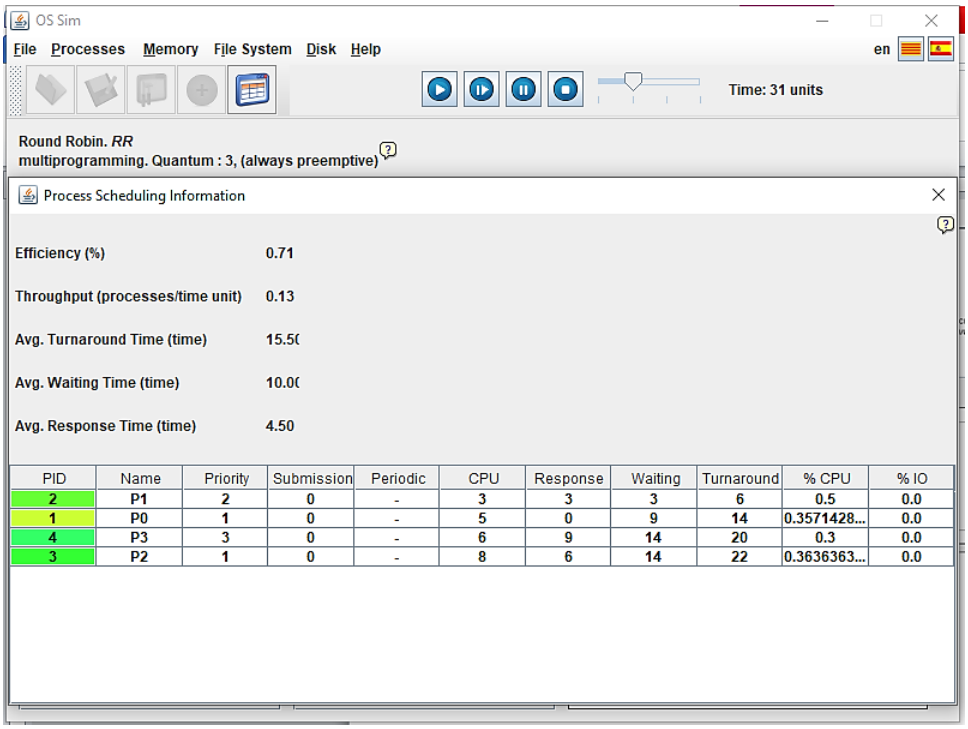


Process	Wait Time : Service Time – Arrival Time
P0	9
P1	6
P2	14
P3	0
Av wait time	7.25

4. Round Robin (quantum time = 3)

Process	Arrival Time	Burst Time	Priority	Service Time
P0	0	5	1	0
P1	1	3	2	11
P2	2	8	1	14
P3	3	6	3	5


OS Sim
File Processes Memory File System Disk Help
en
Time: 0 units
Round Robin. RR
multiprogramming. Quantum : 3, (always preemptive)
Ready Queue
PID 4
P3
prio 3
PID 3
P2
prio 1
PID 2
P1
prio 2
PID 1
P0
prio 1
CPU
I/O
Incoming processes
PID
Name
Submission
Blocked - I/O operations
PID
Name
Time left
Processor
Idle


OS Sim
File Processes Memory File System Disk Help
en
Time: 31 units
Round Robin. RR
multiprogramming. Quantum : 3, (always preemptive)
Process Scheduling Information
Efficiency (%) 0.71
Throughput (processes/time unit) 0.13
Avg. Turnaround Time (time) 15.5(
Avg. Waiting Time (time) 10.0(
Avg. Response Time (time) 4.50
PID Name Priority Submission Periodic CPU Response Waiting Turnaround % CPU % IO
2 P1 2 0 - 3 3 3 6 0.5 0.0
1 P0 1 0 - 5 0 9 14 0.3571428... 0.0
4 P3 3 0 - 6 9 14 20 0.3 0.0
3 P2 1 0 - 8 6 14 22 0.3636363... 0.0

Process	Wait Time : Service Time – Arrival Time
P0	9
P1	3
P2	14
P3	14
Av wait time	10