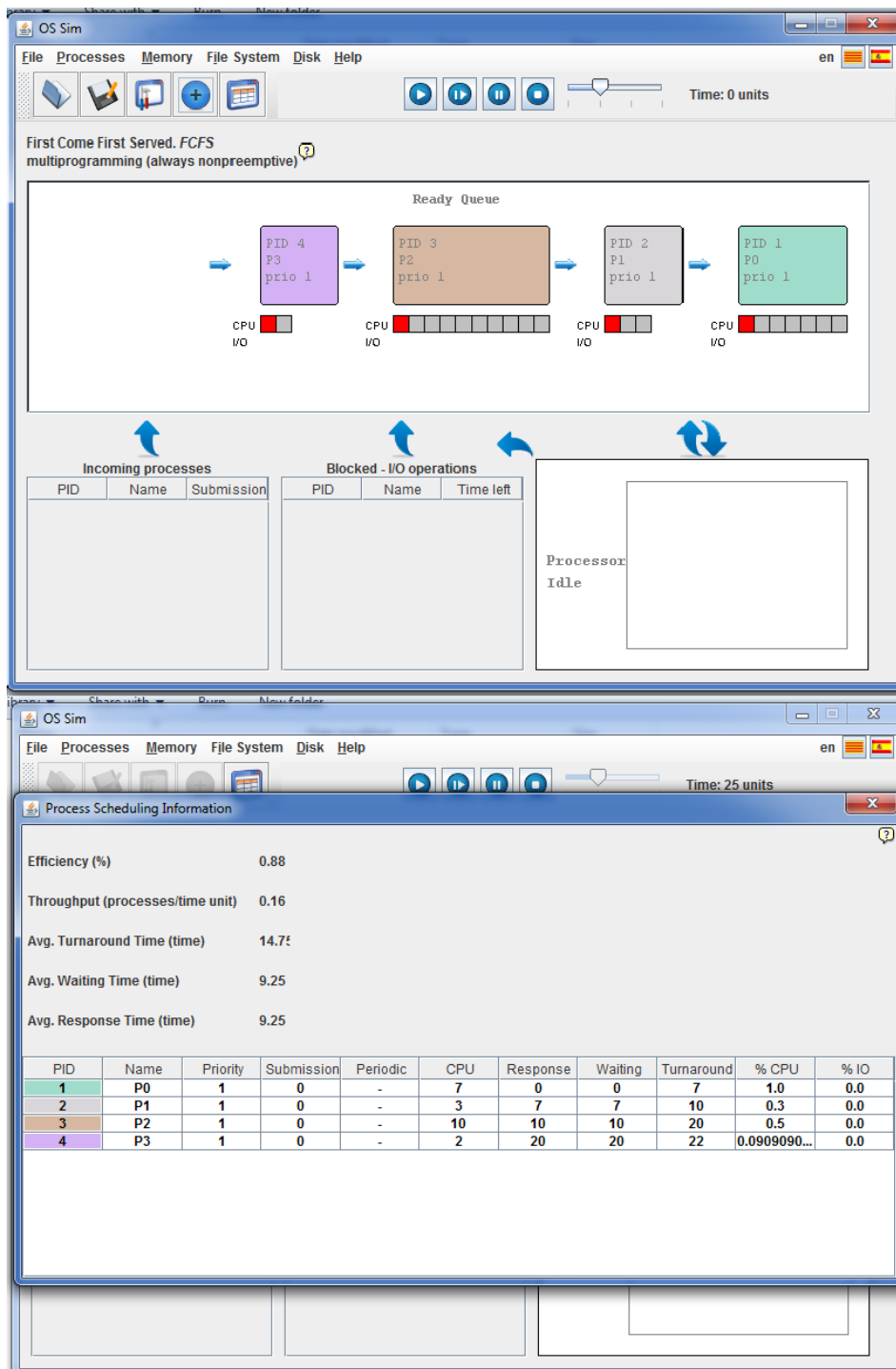


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 NIM : L200180117
 Kelas : C

Praktikum Sistem Operasi Modul 11

| PROSES | BURST TIME | PRIORITY |
|--------|------------|----------|
| P0 | 7 | 4 |
| P1 | 3 | 2 |
| P2 | 10 | 1 |
| P3 | 2 | 3 |

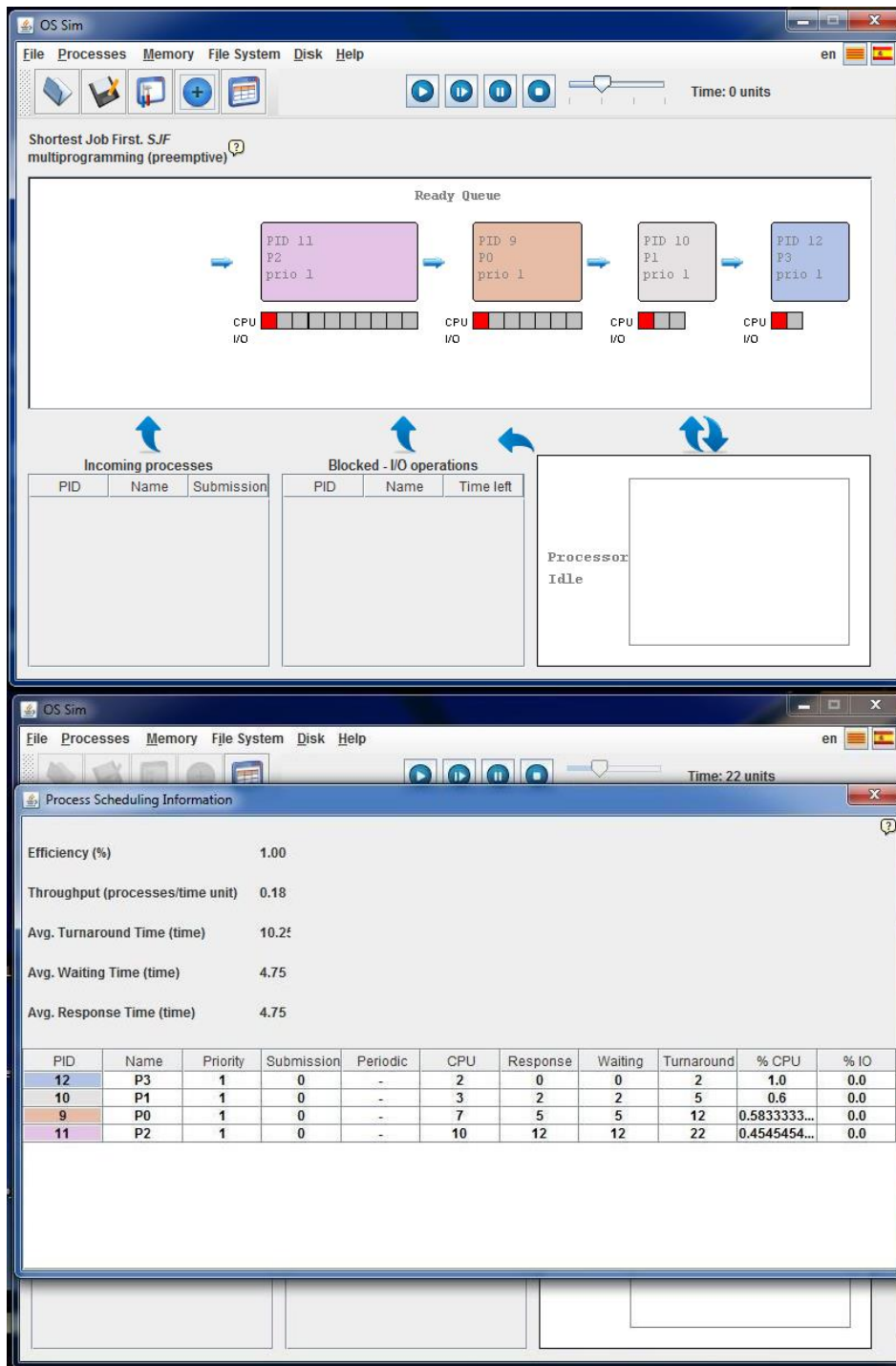
A. FCFS



| PROSES | WAIT TIME |
|------------------|-----------|
| P0 | 0 |
| P1 | 7 |
| P2 | 20 |
| P3 | 22 |
| AV. WAITING TIME | 9.25 |
| AV. TURNAROUND | 14.75 |
| AV. RESPONSE | 9.25 |

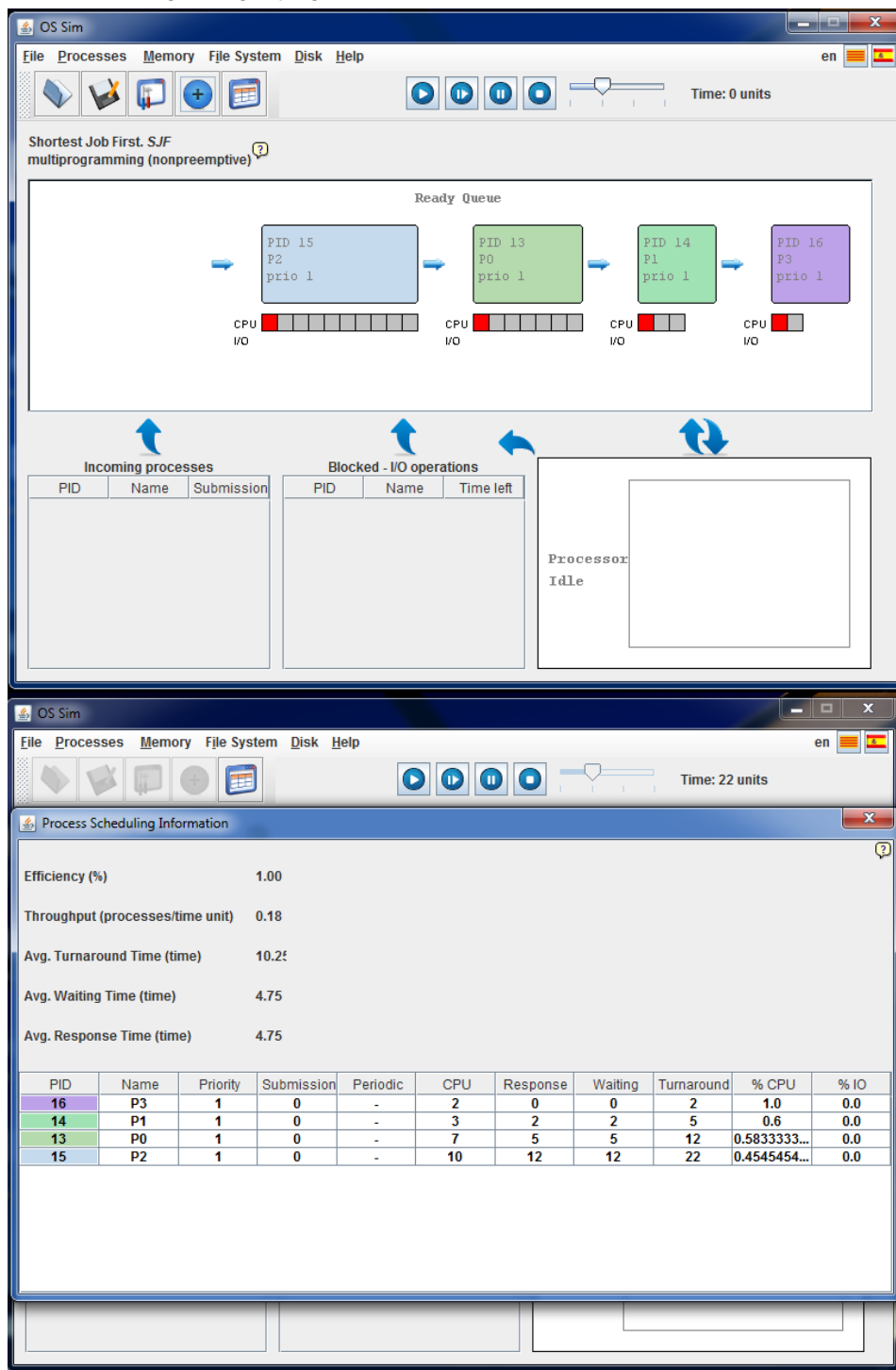
B. SJFS

• Premptive



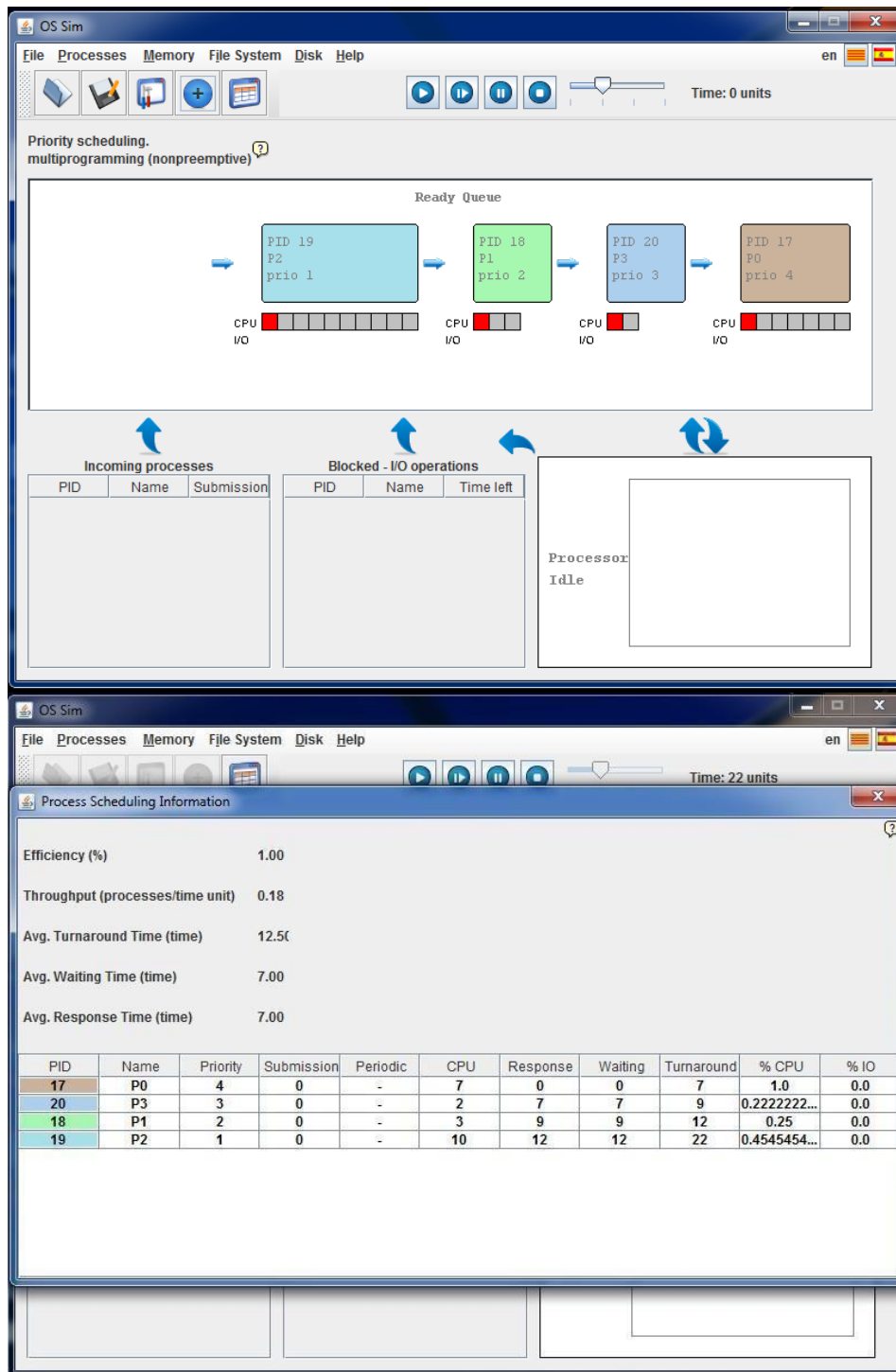
| PROSES | WAIT TIME |
|------------------|-----------|
| P0 | 5 |
| P1 | 2 |
| P2 | 12 |
| P3 | 0 |
| AV. WAITING TIME | 4.75 |
| AV. TURNAROUND | 10.25 |
| AV. RESPONSE | 4.75 |

- **Non-Premptive**



| PROSES | WAIT TIME |
|------------------|-----------|
| P0 | 5 |
| P1 | 2 |
| P2 | 12 |
| P3 | 0 |
| AV. WAITING TIME | 4.75 |
| AV. TURNAROUND | 10.25 |
| AV. RESPONSE | 4.75 |

C. PRIORITY SCEDULING



| PROSES | WAIT TIME |
|------------------|-----------|
| P0 | 0 |
| P1 | 9 |
| P2 | 12 |
| P3 | 7 |
| AV. WAITING TIME | 7.00 |
| AV. TURNAROUND | 12.50 |
| AV. RESPONSE | 7.00 |

D. ROUND ROBIN (QUANTUM = 4)

OS Sim

File Processes Memory File System Disk Help

Round Robin. RR multiprogramming. Quantum : 4, (always preemptive)

Ready Queue

PID 24 P3 prio 1 CPU I/O

PID 23 P2 prio 1 CPU I/O

PID 22 P1 prio 1 CPU I/O

PID 21 P0 prio 1 CPU I/O

Incoming processes

| PID | Name | Submission |
|-----|------|------------|
| | | |

Blocked - I/O operations

| PID | Name | Time left |
|-----|------|-----------|
| | | |

Processor Idle

Time: 0 units

OS Sim

File Processes Memory File System Disk Help

Time: 22 units

Process Scheduling Information

Efficiency (%) 1.00

Throughput (processes/time unit) 0.18

Avg. Turnaround Time (time) 14.50

Avg. Waiting Time (time) 9.00

Avg. Response Time (time) 5.50

| PID | Name | Priority | Submission | Periodic | CPU | Response | Waiting | Turnaround | % CPU | % IO |
|-----|------|----------|------------|----------|-----|----------|---------|------------|--------------|------|
| 22 | P1 | 1 | 0 | - | 3 | 4 | 4 | 7 | 0.4285714... | 0.0 |
| 24 | P3 | 1 | 0 | - | 2 | 11 | 11 | 13 | 0.1538461... | 0.0 |
| 21 | P0 | 1 | 0 | - | 7 | 0 | 9 | 16 | 0.4375 | 0.0 |
| 23 | P2 | 1 | 0 | - | 10 | 7 | 12 | 22 | 0.4545454... | 0.0 |

| PROSES | WAIT TIME |
|------------------|-----------|
| P0 | 9 |
| P1 | 4 |
| P2 | 12 |
| P3 | 11 |
| AV. WAITING TIME | 9.00 |
| AV. TURNAROUND | 14.50 |
| AV. RESPONSE | 5.50 |