

King Saud University College of Computer and Information Sciences Computer Science Department Second Semester 1445

CSC227 Operating Systems

Group#3						
Students						
Name	ID	Section				
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ساره السليمي رغد القحطاني						
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I. task distribution.

task distribution.							
ريما التويجري	نوف الوكيل	نورة الثبيتي	ساره السليمي	رغد القحطاني			
Process Control Block class +writing the Report method	Main menu +report	Main menu+ enters processes information method	Queue 1 RR	Queue 2 SJF			

II. Student peer evaluation

Team Work								
Criteria	ريما التويجري	نوف الوكيل	نورة الثبيتي	سارہ السلیمی	رغد القحطاني			
Work division: Contributed equally to the work	1	1	1	1	1			
Peer evaluation: Level of commitments (Interactivity with other team members), and professional behavior towards team & TA	1	1	1	1	1			
Project Discussion: Accurate answers, understanding of the presented work, good listeners to questions	1	1	1	1	1			
Time management: Attending on time, being ready to start the demo, good time management in discussion and demo.	1	1	1	1	1			
Total/4	4	4	4	4	4			

III. Screen shots.

Screen showing sample input/output so that:

- i. The RR condition is demonstrated with different scenarios (i.e., some processes have less/equal/more CPU burst time than the specified time quantum (3ms))
- ii. The non-preemptive Shortest-Job-First (SJF) scheduling is demonstrated.
- iii. Preemption is demonstrated (a newly arriving process has a higher priority than the currently executing process) In addition,

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Choose an action:
1. Enter process, information.
2. Report detailed information about each process and different scheduling criteria.
3. Exit the program.
Enter your choice: 1
Enter the number of processes: 7
Enter information for process 1:
Priority (1 or 2): 2
Arrival time: 0
CPU burst time: 2
done info P1
Enter information for process 2:
Priority (1 or 2): 1
Arrival time: 0
CPU burst time: 3
done info P2
Enter information for process 3:
Priority (1 or 2): 2
Arrival time: 3
CPU burst time: 6
done info P3
Enter information for process 4:
Priority (1 or 2): 1
Arrival time: 11
CPU burst time: 4
done info P4
Enter information for process 5:
Priority (1 or 2): 1
Arrival time: 12
CPU burst time: 1
done info P5
Enter information for process 6:
Priority (1 or 2): 2
Arrival time: 16
CPU burst time: 5
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done info P6
Enter information for process 7:
Priority (1 or 2): 1
Arrival time: 18
CPU burst time: 2
done info P7
Choose an action:
1. Enter process, information.
2. Report detailed information about each process and different scheduling criteria.

3. Exit the program.
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1. Enter process, unformation.
2. Report detailed information about each process and different scheduling criteria.
3. Esit the program.
Enter your choice: 2
Scheduling order of the processes:

[P2|P1|P3|P4|P6|P7|P6]

Detailed information about each process:

Process Div P
Protecty: 2
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Process ID: P3
Priority: 2
Arrival time: 3
CPU burst: 6
Start time: 5
Termination time: 11
Turnaround time: 8
Waiting time: 2
Response time: 2
Process ID: P4
Priority: 1
Arrival time: 11
CPU burst: 4
Start time: 11
Termination time: 16
Turnaround time: 5
Waiting time: 1
Response time: 0
Process ID: P4
Priority: 1
Arrival time: 10
Turnaround time: 5
Waiting time: 1
Response time: 0
Process ID: P5
Priority: 1
Arrival time: 12
CPU burst: 1
Start time: 12
CPU burst: 1
Start time: 14
Termination time: 15
Turnaround time: 15
Turnaround time: 16
Turnaround time: 16
Turnaround time: 16
Start time: 14
Termination time: 15
Turnaround time: 2
Response tim
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Process ID: P6
Priority: 2
Arrival time: 16
CPU burst: 5
Start time: 15
Turnaround time: 23
Turnaround time: 2
Response time: 0
Turnaround time: 18
Turnaround time: 18
Turnaround time: 28
Turnaround time: 18
Response time: 0
Response time: 1.4.285714285714285714
Average Maiting Time: 1.4.285714285714
Average Response Time: 1.0
Response time: 0
Response time: 1.0
Response time: 0
Response time: 1.0
Response time: 0
Response time
```