

به نام خدا



درس آزمایشگاه سیستم عامل

تمرین یازدهم

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تهیه کننده:
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Round Robin Scheduling Algorithm
Enter Number Of Processes : 4
Enter arrival time and Burst time for Process P0 : 2 8
Enter arrival time and Burst time for Process P1 : 1 3
Enter arrival time and Burst time for Process P2 : 0 5
Enter arrival time and Burst time for Process P3 : 3 6
Enter Time Slice OR Quantum Number : 3

*****
Gantt Chart
0 -> [P2] <- 3 -> [P1] <- 6 -> [P0] <- 9 -> [P3] <- 12 -> [P2] <- 14 -> [P0] <- 17 -> [P3] <- 20 -> [P0] <- 22
*****

Pro   ArTi   BuTi   TaTi   WtTi
*****
P2     0     5     14     9
P1     1     3     5     2
P0     2     8     20    12
P3     3     6     17    11
*****
Average Waiting Time : 8.50
Average Turnaround Time : 14.00

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PREEMPTIVE PRIORITY SCHEDULING ALGORITHM

Enter Total Number of Process:4

Enter Burst Time and Priority:

P[1]
Burst Time:6
Priority:3

P[2]
Burst Time:2
Priority:2

P[3]
Burst Time:14
Priority:1

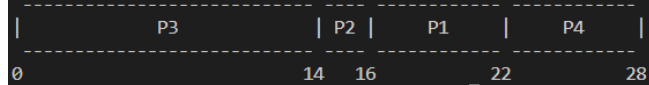
P[4]
Burst Time:6
Priority:4

PID	Burst Time	Waiting Time	Turnaround Time
3	14	0	14
2	2	14	16
1	6	16	22
4	6	22	28

Average Waiting Time=13

Average Turnaround Time=20

GANTT CHART



First Come First Serve Scheduling Algorithm

Enter total number of process: 3

Enter burst time for each process:

P[1] : 24

P[2] : 3

P[3] : 7

PID	Burst Time	Waiting Time	Turnaround Time
1	24	0	24
2	3	24	27
3	7	27	34

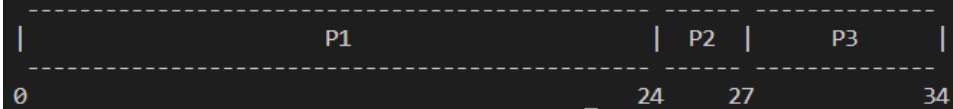
Total Waiting Time : 51

Average Waiting Time : 17.00

Total Turnaround Time : 4199205

Average Turnaround Time : 1399735.00

GANTT CHART



SHORTEST JOB FIRST SCHEDULING ALGORITHM

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Enter total process: 4

Enter burst time for each process:

P[1]: 5

P[2]: 4

P[3]: 12

P[4]: 7

Average Waiting Time: 7.25

Gantt Chart:

