

Implement FCFS scheduling algorithm. Display Gantt Chart, Turnaround & waiting time of each process and average turnaround & waiting time.

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Implement SJF non preemptive scheduling algorithm. Display Gantt Chart, Turnaround & waiting time of each process and average turnaround & waiting time.

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Implement RR scheduling algorithm. Display Gantt Chart, Turnaround & waiting time of each process and average turnaround & waiting time.

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Implement priority driven non preemptive scheduling algorithm. Display Gantt Chart, Turnaround & waiting time of each process and average turnaround & waiting time.

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Implement SJF preemptive scheduling algorithm. Display Gantt Chart, Turnaround & waiting time of each process and average turnaround & waiting time.

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Implement SRTF scheduling algorithm. Display Gantt Chart, Turnaround & waiting time of each process and average turnaround & waiting time.

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Implement preemptive priority algorithm. Display Gantt Chart, Turnaround & waiting time of each process and average turnaround & waiting time.

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Implement producer consumer algorithm

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Implement Banker's algorithm

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Implement Optimal page replacement algorithm. Calculate total no. of page hits, page faults, hit ratio and miss ratio.

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Implement LRU page replacement algorithm. Calculate total no. of page hits, page faults, hit ratio and miss ratio.

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Implement FIFO page replacement algorithm. Calculate total no. of page hits, page faults, hit ratio and miss ratio.

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Implement LFU page replacement algorithm. Calculate total no. of page hits, page faults, hit ratio and miss ratio.

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Implement Best fit placement algorithm. Display the size of the holes created.

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Implement First fit placement algorithm. Display the size of the holes created.

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Implement Worst fit placement algorithm. Display the size of the holes created.

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Implement Next fit placement algorithm. Display the size of the holes created.

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Implement the SCAN disk Scheduling algorithm. Calculate the total track movements.

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Implement the SSTF disk Scheduling algorithm. Calculate the total track movements.

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Implement the FCFS disk Scheduling algorithm. Calculate the total track movements.

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Implement the CSCAN disk Scheduling algorithm. Calculate the total track movements.

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Implement the LOOK disk Scheduling algorithm. Calculate the total track movements.

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Implement the C-LOOK disk Scheduling algorithm. Calculate the total track movements.

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Build an instance of bus ticket reservation system using multithreading for the following scenario.

ABC Bus service has only two seats left for reservations. Two users are trying to book the ticket at the same time.

1) Create separate thread per user. Show how this code is leading to inconsistency

2) Improve the code by applying synchronization.

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