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//***** PROGRAM IDENTIFICATION *****
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//* PROGRAM NAME: SIMULATION GROUP PROJECT Grade: _____
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//* PROGRAM AUTHORS: NAMES SIGNATURES
//*
//* JEREMY VINER _____
//*
//* FRANCESCO POLLIZI _____
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//* HEIN HTET ZAW _____
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//* COURSE #: CSC 40600 11 DUE DATE: May 11, 2016
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//* PROGRAM DESCRIPTION: THIS PROGRAM IS TO SIMULATE THE OPERATIONS OF AN OPERATING SYSTEM AS IT
//* PROCESSES A STREAM OF INCOMING PROCESSES.
//* THE SIMULATION EMPLOYES: ONE PROCESSOR(CPU)
//* ONE I/O DEVICE
//* ONE LONG TERM QUEUE OF 60 SPACES
//* ONE SHORT TERM QUEUE OF 30 SPACES
//* ONE I/O QUEUE.
//* THE INITIAL ALGORITHM WILL BE "FCFS" FOR SHORT TERM QUEUE.
//*
//* EXTRA CREDIT OPPORTUNITY 1
//* =====
//* EMPLOYING EITHER ONE OF THESE ALGORITHMS WILL BE FOR 10 EXTRA CREDIT.
//* ROUND-ROBIN | SHORTEST REMAINING TIME NEXT | SHORTEST JOB FIRST | HIGHEST-RESPONSE-RATIO NEXT
//*
//* OUTPUT SHOULD INCLUDE: CALCULATED AVERAGE
//* VARIANCE
//* STANDARD DEVIATION OF THE INTER ARRIVAL TIMES
//* THE JOB LENGTHS
//* THE I/O BURST LENGTHS
//* THE CPU BURST LENGTHS (OF ALL JOBS)
//*
//* EXTRA CREDIT OPPORTUNITY 2
//* =====
//* SUBMITTING A WRITTEN REPORT WILL BE ANOTHER 10 POINTS EXTRA CREDIT. THE REPORT SHOULD INCLUDE:
//* THE TITLE OF THE REPORT
//* THE NAMES OF THE TEAM MEMBERS
//* NUMBER OF JOBS PROCESSED
//* NUMBER OF MAJOR DEVICES (CPU, STQ, ETC.) USED
//* TYPE OF SCHEDULING ALGORITHM(S) USED AND ON WHICH DEVICES (CPU, I/O, AND QUEUES)
//* ANY OTHER INFORMATION THE TEAM MAY DEEM APPROPRIATE
//* IF THE PROGRAM EMPLOY A SECOND ALGORITHM, AN OUTLINE OF THE ALGORITHM (PSEUDOCODE)
//* USED IN THE SIMULATION TO MANAGE THE SHORT TERM QUEUE
//* A MINIMUM OF (3) WAYS IN WHICH THE SIMULATION CAN BE ENHANCED (MAKE MORE REALISTIC)*
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