//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* PROGRAM IDENTIFICATION \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

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//\* PROGRAM NAME: SIMULATION GROUP PROJECT Grade: \_\_\_\_\_\_\_\_\_ \*

//\* \*

//\* PROGRAM AUTHORS: NAMES SIGNATURES \*

//\* \*

//\* JEREMY VINER \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \*

//\* \*

//\* FRANCESCO POLLIZI \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \*

//\* \*

//\* HEIN HTET ZAW \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \*

//\* \*

//\* KATIE SCHAFFER \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \*

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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 DEVISES (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 APPROPIATE \*

//\* IF THE PROGRAM EMPLYS 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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