**Embedded System Software Design Project 1**

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⚫ Part 1 [Global Scheduling. 10%]

▪ Describe how to implement Global scheduling by using pthread. 5%





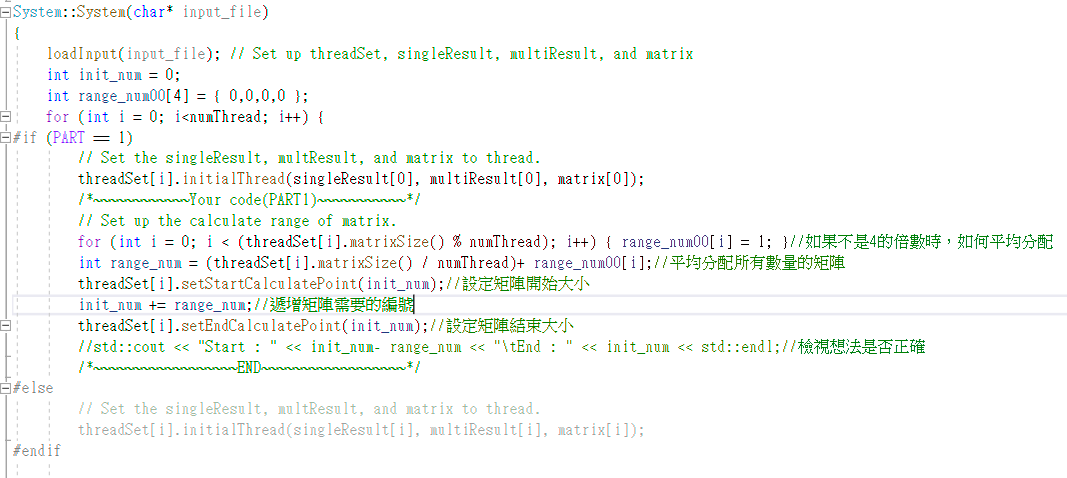
▪ Describe how to observe task migration. 5%





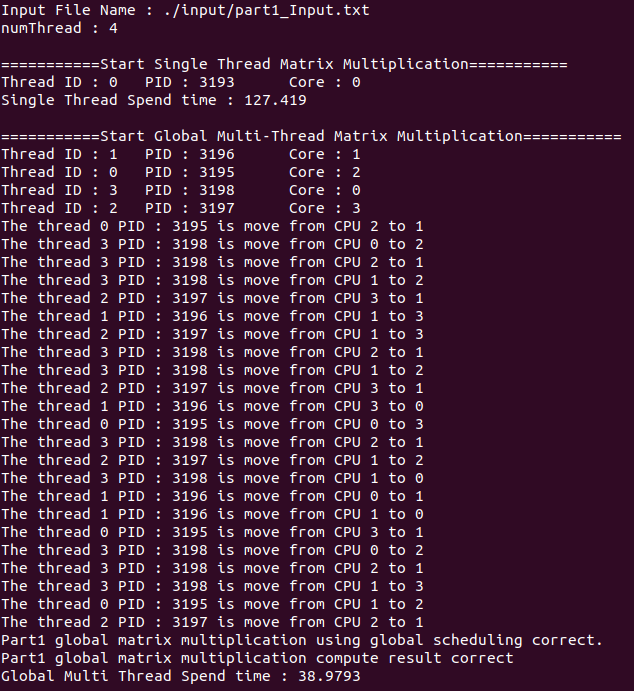
[Partition Scheduling. 5%]

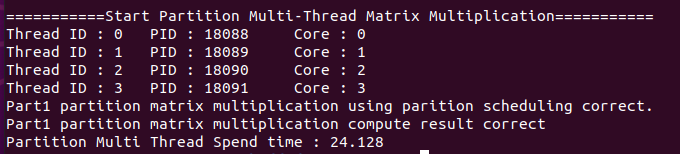
▪ Describe how to implement partition scheduling by using pthread.



[Result. 10%]

▪ Show the scheduling states of tasks. (You have to show the screenshot result of using the input part1\_Input.txt)

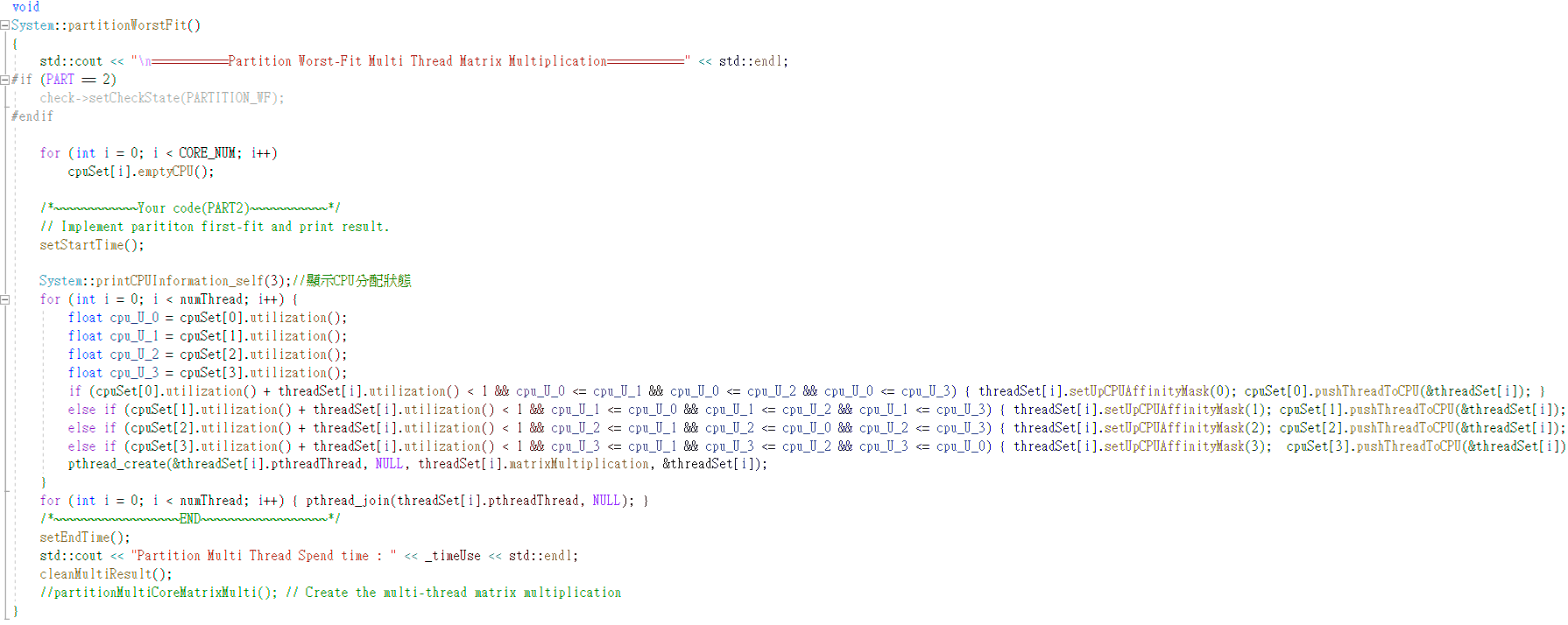




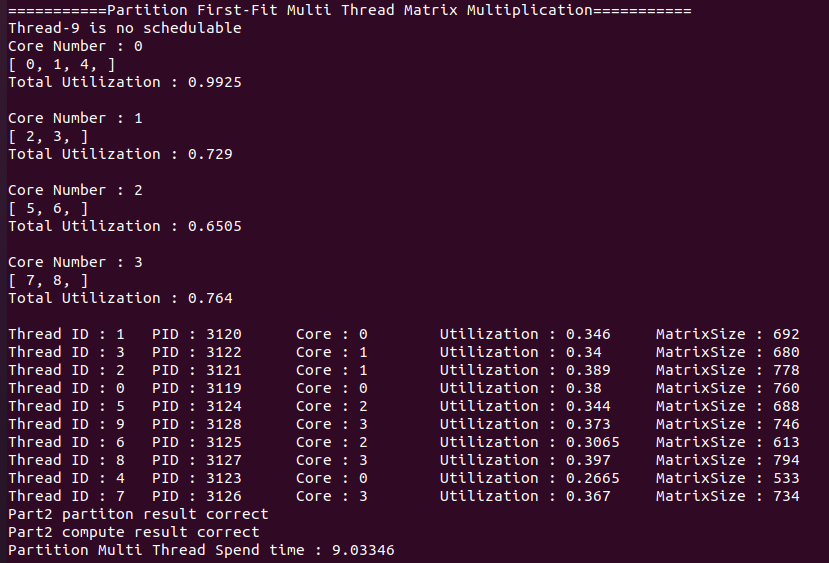
⚫ Part 2 [Partition method Implementation. 10%]

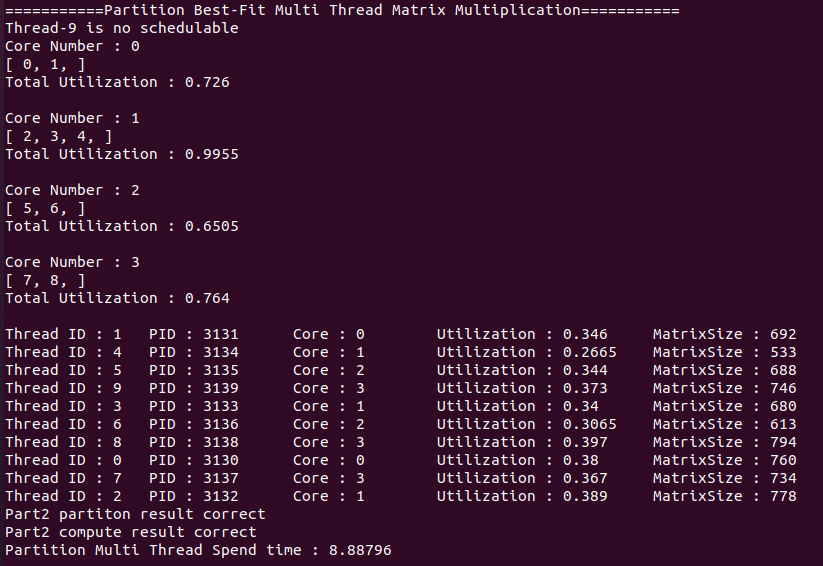
▪ Describe how to implement the three different partition methods (First-Fit, Best-Fit, Worst-Fit) in partition scheduling. [Result. 30%]

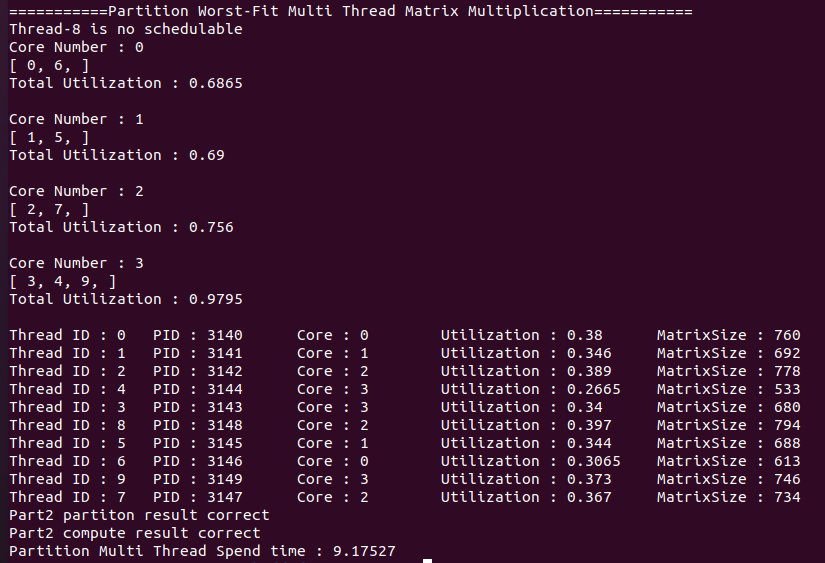


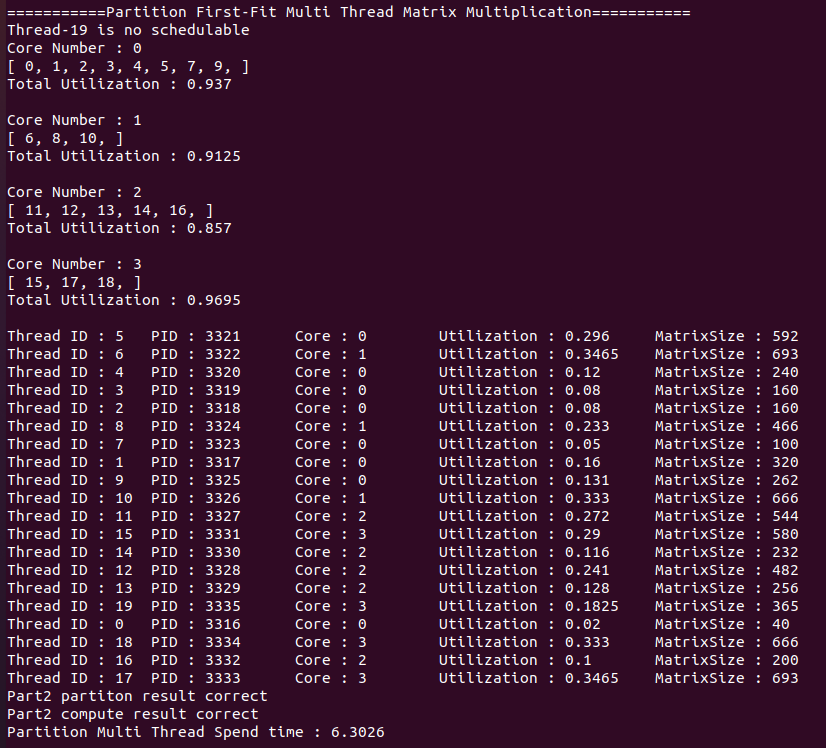


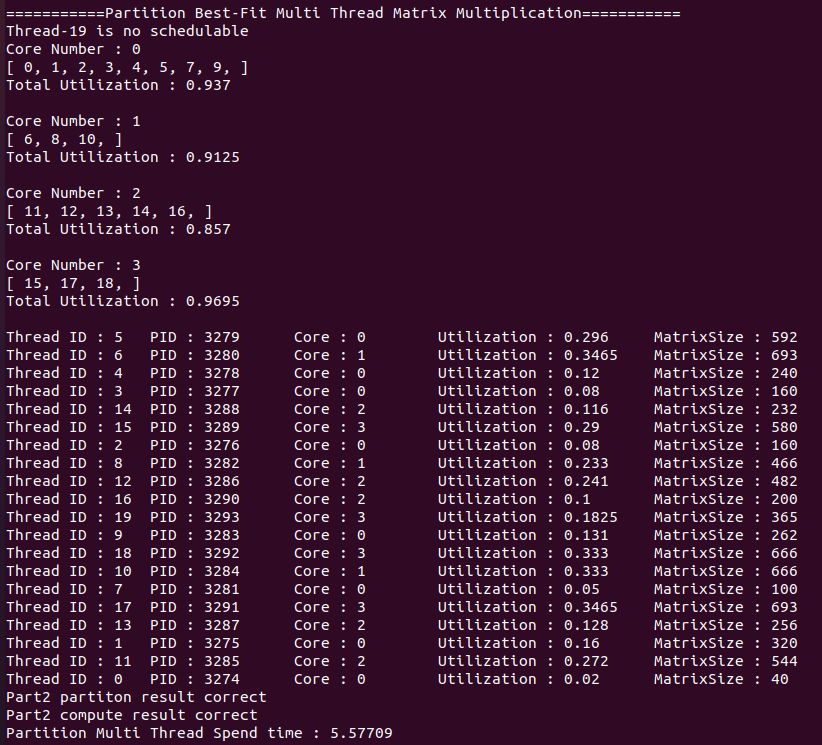
▪ Show the scheduling states of tasks. (You have to show the screenshot result of using input part2\_Input\_10.txt and part2\_Input\_20.txt)

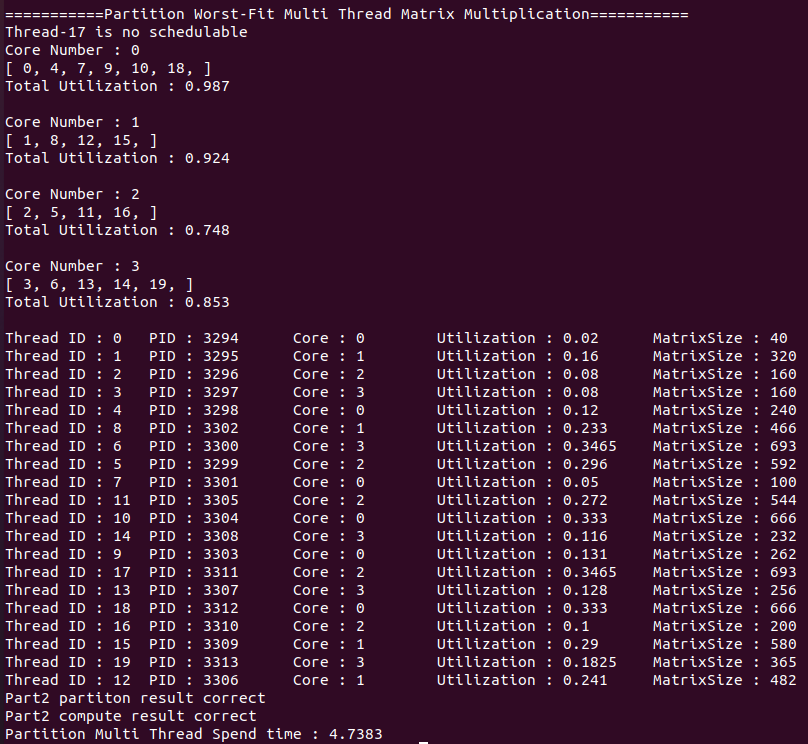












⚫ Part 3 [Scheduler Implementation. 10%]

▪ Describe how to implement the scheduler setting in partition scheduling. (FIFO with FF, RR with FF) [Result. 10%]

▪ Show the process execution states of tasks. (You have to show the screenshot result of using input part3\_Input.txt)

⚫ Discussion

▪ Analyze and compare the response time of the program, with single thread and multi-thread using in part1 and part2. (Including Single, Global, FirstFit, Best-Fit, Worst-Fit) 10%

▪ Analyze and compare the response time of the program, with two different schedulers. (FIFO with FF, RR with FF) 5%