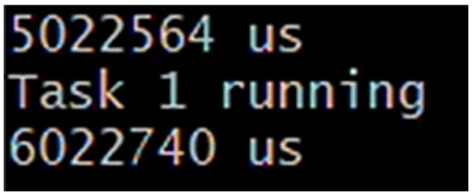
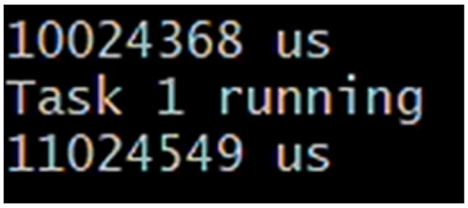
Question 6

First Execution:



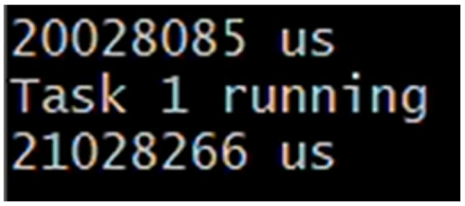
Execution time = 6022740 us – 5022564 us = 1000176 us

Second Execution:



Execution time = 11024549 us – 10024368 us = 1000181 us

Third Execution:

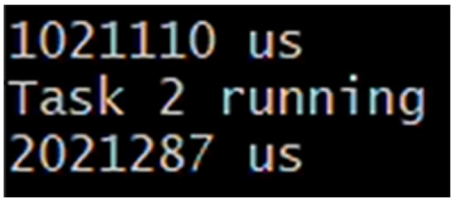


Execution time = 21028266 us – 20028085 us = 1000181 us

From these three executions of Task 1, the average execution time was 1000238 us.

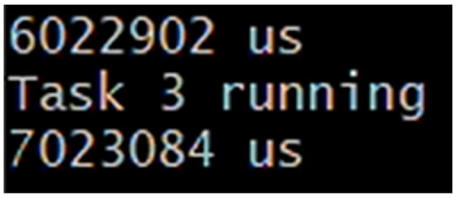
With Task 1's implementation almost equivalent to Tasks 2 to 5 (only differing by their task number), we could incorporate their runtimes to further determine the average execution time of each task.

Task 2



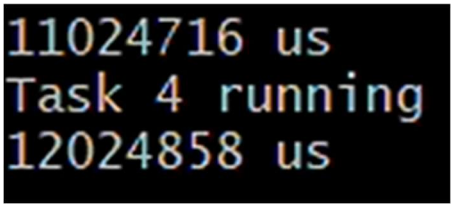
Runtime = 2021287 us – 1021110 us = 1000177 us

Task 3



Runtime = 7023084 us – 6022902 us = 1000182 us

Task 4



Runtime = 12024858 us – 11024716 us = 1000142 us

With the execution time of these tasks included, the average execution time of each task is 1000203 us.