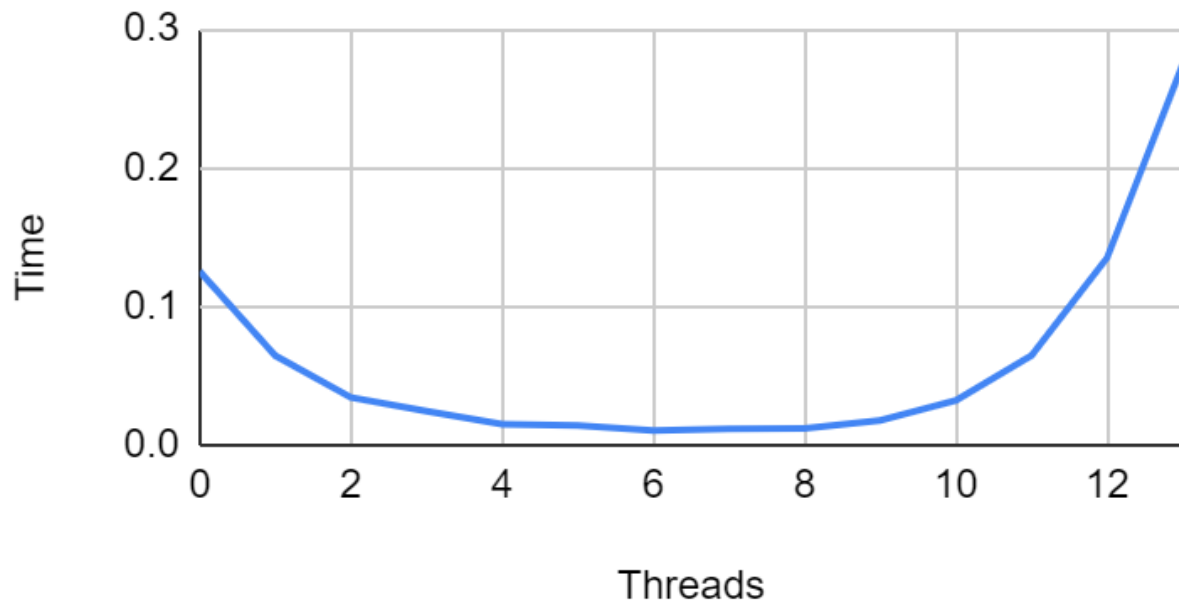


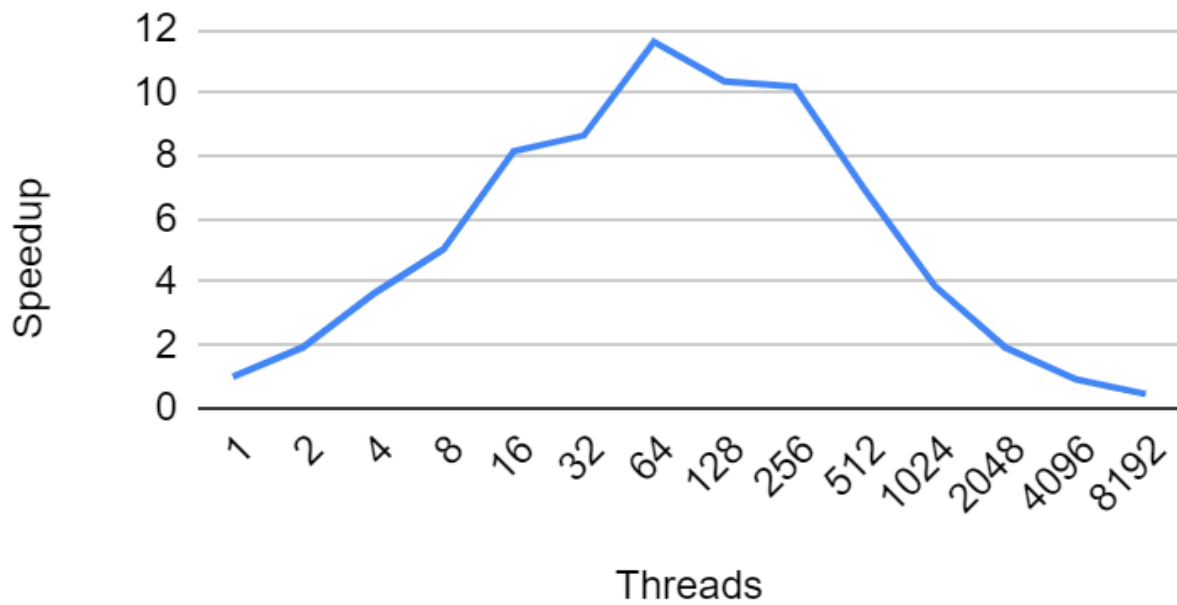
Charlie Horton
724001915
CSCE 435

Homework 2

Q1

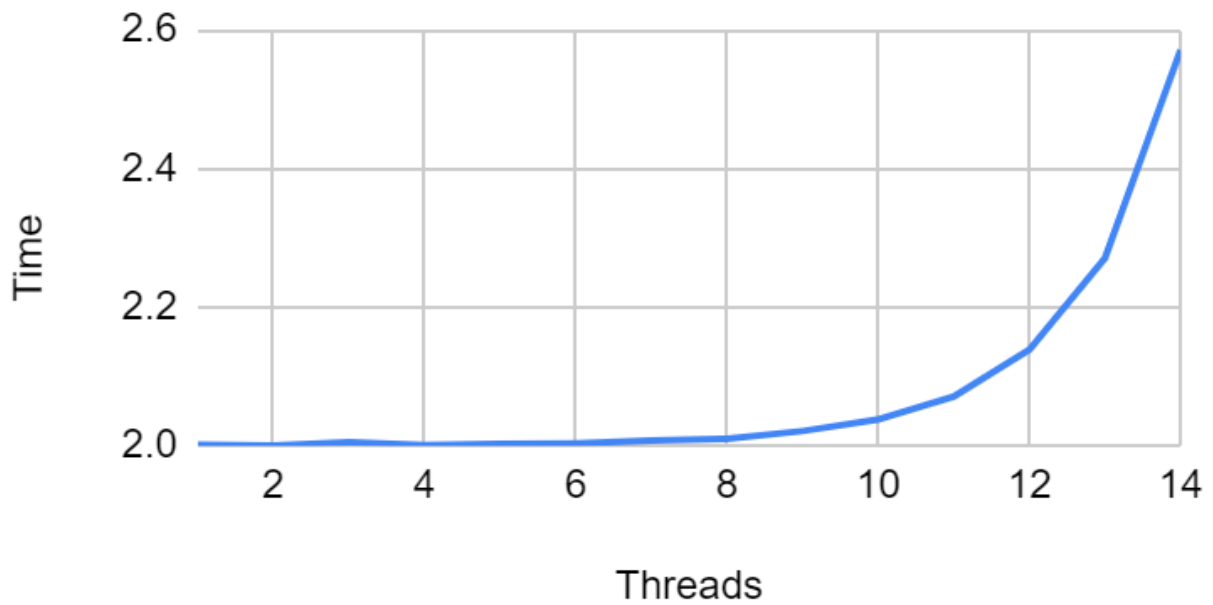


Q2

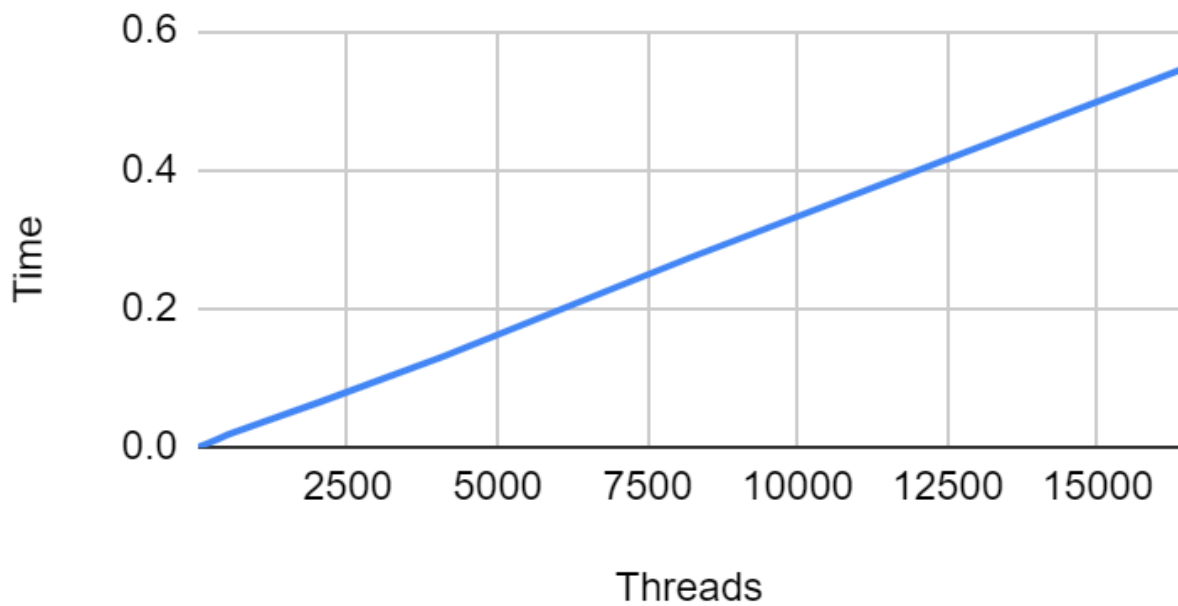


At first, adding more threads gives a huge boost in speed. As you continue to add more threads execution time begins to flatten out as the time saved by adding additional threads just gets eaten up by overhead in scheduling the threads. Eventually adding threads increases execution time as the required overhead for scheduling the threads takes more time than the additional threads would save.

Q3



Q4



There is a linear growth of time with the number of threads. This growth can be attributed to the scheduling overhead of the threads which would be linear as each thread would take a constant amount of time to be scheduled.