**CS 450 – Assignment 5**

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| Question # | Total Time | Thread 1 Time | Thread 2 Time | Load Imbalance |
| 1 | 14.60806 |  |  |  |
| 2 | 14.67516 | 0.5228246 | 14.62471 | 14.15207 |
| 3 | 8.639084 | 8.6390829 | 8.639072 | 0.0000556 |
| 4 | 18.0889896 | 18.0886996 | 18.0886468 | 0.0000621 |

For this assignment I was able to successfully parallelize the code given to achieve significant runtime speedup and optimal load balance.

The only question which I had trouble with was Question 4. My code runs even slower than the original, un-parallelized code. While it does have a high degree of balancing, I believe that my implementation of mutex locks may have been the cause of the slowdown.