

**CS 450 – Assignment 5**  
**Richard McCormick (RLM443)**

<b>QUESTION #</b>	<b>TOTAL TIME</b>	<b>THREAD 1 TIME</b>	<b>THREAD 2 TIME</b>	<b>LOAD IMBALANCE</b>
<b>1</b>	14.60806			
<b>2</b>	14.67516	0.5228246	14.62471	14.15207
<b>3</b>	8.639084	8.6390829	8.639072	0.0000556
<b>4</b>	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.