Major Changes: There have been no major changes in the scope of my project.

What I Have Accomplished Since My Last Meeting: I worked on showing that the idea we’d discussed in the last meeting works. I think I proved it and am working on writing up the proof properly to make sure. I am also trying to remove the log(N) factor in our final answer to get a tight bound on the runtime – this current one is almost tight, but not quite because of this extra factor.

Meeting Your Milestone: I have met my milestone of making progress on the problem and having a good idea to move forward with.

Surprises: No surprises recently.

Looking Ahead: The next step is to finish writing up the proofs of run-time and correctness of the current algorithm, and make sure that they indeed work out. After that, we need to remove the extra log(N) factor. Finally, we need to decrease the run-time of the classical post-processing step.

Revisions to Your Future Milestones: I don’t have any revisions to future milestones.

Resources Needed: I have all of the resources I need to complete my 15-400 project.