

Progress Report 7

Date: 2020-12-17

Members: Edwin Aldrich, Logan Drescher, Bettina King-Smith

Overview

Since finals are this week, we primarily focused on practicing our presentation and cleaning up existing code. Next week will be dedicated towards implementing the Simplex algorithm.

Accomplished

- **Bettina refined the presentation.** I made edits based on feedback from Edwin and Logan, and Professor Syta.
- **Edwin, Logan, and Bettina practiced the presentation. A lot.** The presentation was a success -- hooray!!!
- **Logan cleaned up our repo.** Logan cleaned up our repo for algorithm proof of concept and handled the branch management that needed to be taken care of.
- **We all discussed meeting times over winter break.** We have decided which days we will be able to meet to discuss and work on our project.

Next Tasks

Our top priorities over winter break will include:

- **Logan will figure out how to convert our course registration requirements and limitations into standard LP form, and implement it.** He is currently thinking that Integer Linear Programming might be applicable in this case, and is working out how to actually implement this.
- **Edwin will verify the code in the algorithm proof of concept repo is readable and clean.** He will also be responsible for writing at least 2 extra progress reports next semester.
- **Someone will implement algorithms that we could use for comparison / testing purposes.** This would allow us to prove to ourselves that our algorithm is actually an improvement over the current system.
- **Bettina will figure out how to convert our course registration problem into a proof of concept Dynamic Programming (aka recursive) problem, and implement it.** Bettina would like to explore alternatives to the LP solution and thinks that a recursive solution might be applicable without being too space-heavy.

- **We (likely Bettina) will email Professor Syta by the 2020-12-31 deadline.** We will include details about progress regarding our algorithm and a statement about whether or not we are in a good place to proceed with the project at the current scope.