

CPR/SE 492 Bi-Weekly Report MAY 15-10 Weeks 3-4

Advisors: Ruchi Chaudhary

Client: Gordon Burleigh

Members (roles): Ben -- Team leader
 Cole -- Team Key Concept Holder
 Ian -- webmaster
 Paul -- communication leader

Project Title: Gene Tree Improvement Tool / TreeFix

Bi-Weekly Summary

The last two weeks we have been focused on extensively testing our implementation of MulRF before we send it Professor Burleigh. The team got together to verify our test case results by hand to make sure the algorithm was correct. We also met with our advisor to clarify some specifics about our algorithm.

Meeting notes:

1/27 Advisor Meeting

Duration: 0.5 hrs **Members Present:** All

Purpose and Goals:

Meet with advisor to update where we are with testing, and clarify MulRF algorithm.

Achievements:

We updated Ruchi with where we were with testing the algorithm. She also clarified some of the questions about how to calculate cost in MulRF.

1/29 Group Meeting

Duration: 2 hrs **Members Present:** All

Purpose and Goals:

Fix MulRF cost algorithm to incorporate species trees with nonbinary nodes and test algorithm.

Achievements:

We fixed the MulRF algorithm to handle trees with nonbinary nodes. We also verified some test cases by hand. We also planned to split up test cases amongst of the group members to run and report back next meeting.

1/27 Instructor Meeting

Duration: 0.5 hrs **Members Present:** All

Purpose and Goals:

To detail our project to our instructor for 492

Achievements:

We discussed with Professor Amariucaí what our project was about, and what we've accomplished so far. We also talked about what we were planning to do this semester.

2/3 Advisor Meeting

Duration: 10 mins **Members Present:** All

Purpose and Goals:

Meet with advisor to update where we are with testing, and clarify MulRF algorithm. Answered questions that she posed to us about the project

Achievements:

We updated Ruchi with where we were with testing the algorithm

Pending issues

1. Get test data from Ruchi

Plans for next week

Paul - Tackle the test cases given to me, verify that the cost reported by Treefix is correct.

Cole - Optimization of compute cost function.

Ben - Finish necessary test cases

Ian - Design/create oracle program to test outputs of TreeFix.

Individual Contributions

Ben Streit -Helped identify cause of incorrect test case values

Cole Poffenberger - fixed bug within the compute cost.

Ian Ray - attended meetings, worked on test cases and started thinking about how to design an oracle for 'test cases.'

Paul Leichty - attended all meetings, started working on test cases assigned to me.