

Problem Set 9

Due: Wednesday, April 19, 2017

Solve Problem 9.1 and optionally Problem 9.2.

Problem 9.1 [Mandatory, Collaboration exactly with your project group].

Each week from now on, we will ask you to tell us about your progress from the last week on your final project.

As part of your progress update this week, please include an introductory **single slide for your project**. This must include your project title and team members. It may also contain images and other information. We'll show the slides in class next week so everyone will know what topics to expect from the final presentations. The slide should be a pdf.

We are also happy to hear about any other updates. What have you been working on or thinking about? Did you run into any issues or questions? Did you reach any milestones? What remains to be finished in the next two weeks? (Your report may state that you've made no progress, but you are required to submit a title slide.)

The following problem is optional. Time permitting, we will still provide feedback and solutions to any submissions.

Problem 9.2 [Optional, Collaboration OK].

For every positive integer L , for infinitely many n , find a polygon with n vertices that has $n^{\Omega(L)}$ combinatorially distinct gluing trees with L leaves.