

## Homework 4: Semester Project

In this homework you will finish your semester project.

The project portion of this homework is intended to be done in your project groups. Be sure to follow the process to certify your group work, as described in the course's grading policy, if you work in groups.

1. (200 points) Finish your semester project, which should involve at least 3 static analysis questions that are combined to accomplish some task. Turn in enough so that, when imported into Eclipse (from a zip file), it will build and compile; this should include enough code so that we can understand what you have done. Add an overall overview of the project and comments to explain anything interesting. The overall could give a mathematical treatment. Be sure to include testing as well.

For grading, we will use:

- 30 points for the overview and documentation. (Be sure to properly cite any sources you use.)
- 50 points for analysis 1.
- 50 points for analysis 2.
- 50 points for analysis 3.
- 20 points for testing.

You can use our WHILE language as a sample project, although the analyses are not combined in that project to accomplish a single task. The Unix command for cloning the project from github.com is:

```
git clone https://github.com/leavens/WhileLang.git
```

In Eclipse, use the "File" menu, then select "Import ...", the select "Git" then "clone URI" and use the URI <https://github.com/leavens/WhileLang.git>.

2. (50 points) Present your project and its implementation to the class on either April 17 or 24. You can have up to 10 minutes to present your project and 2 more minutes to answer questions about it. To allow time for questions, your presentation should be planned for only 10 minutes. You can use the whiteboard or computer projection to assist in presenting your work.

We plan to give point according to the following breakdown:

- Problem Description (10 pts)
- Overview of all Analyses (5pts)
- Description of Analysis 1 (10 pts)
- Description of Analysis 2 (10 pts)
- Description of Analysis 3 (10 pts)
- Clarity and Professionalism (5 pts)

If you are working off campus and cannot come to the classroom to present your project, talk to the instructor about presenting it on video.