EECS 293
Software Craftsmanship
2014 Fall Semester

Programming Assignment 7

Due at your recitation session on October 13-17, 2014

Grading Guidelines

Starting with Programming Assignment 7, an automatic C (or less) is triggered by improperly named routines.

An automatic C (or less) is also triggered by any routine with complexity greater than 4 or by any substantially repeated piece of code.

Programming

In this programming assignment, you will implement Dr. Jones' maze algorithm.

First, revise your pseudo-code to reflect the discussion during recitation.

Second, follow the instructions to clone the Git repository that has been setup on eecslinab6. The instructions are posted as part of the Git lecture notes on Blackboard.

Third, create a new repository 'maze.git'. Place all of your homework artifacts in the maze.git repository.

Fourth, implement the maze algorithm according to the pseudo-code programming process. Follow your revised pseudo-code faithfully, even if you can think of additional improvements. You will probably need to implement some methods for error-handling. However, since your code is primarily for hypothetical future use as a component in a larger project, your code may contain only simple stubs for error-handling.

Fifth, make sure during development you make small regular commits. When you are finished with your homework remember to tag your release and push that tag to your git repository on eecslinab6.

```
$ git tag -a pa7
$ git push --tags
```

Discussion Guidelines

The first part of the class discussion is on git: the recitation leader will pull your changes from your repository on eecslinab6. You will then give the class a brief overview of your development process using the commit history stored in git. The aim is to have relatively small self-contained commits with descriptive commit messages.

The bulk of the discussion will focus on the pseudo-code programming process (Chapter 9): appropriateness and completeness of pseudo-code for rapid implementation, pseudo-code comments in final code, etc. For the sole purpose of comparing with the previous assignment, leave all pseudo-code comments in your code.