Course Project

17-355/17-665: Program Analysis (Spring 2017)
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Project Proposals due Thursday, April 6 at 11:59pm
Milestone 1 Report due Tuesday, April 18 at 11:59pm
Milestone 2 Report due Tuesday, May 2 at 11:59pm
Project Presentations due Monday, May 8 at 8:30am
Project Reports due Monday, May 15 at 11:59pm
500 points total

The goal of the course project is to become deeply familiar with a subarea of program analysis and to construct or evaluate an interesting tool in that area. The expected scope of the project is 35-40 hours per person, spread out over the last half of the course.

Optional Pairs. Students may work on this project individually or in pairs. Pair projects will be given a single grade, with exceptions in extraordinary circumstances (e.g. if someone is clearly not pulling his or her weight). You are free to choose your partner if you choose the pair option. Expectations for the project will be scaled for pairs vs. individuals.
1 Project Proposals

Your project proposal should be emailed to the instructor (aldrich@cs.cmu.edu). List the project title and your name(s). You have several options for the project:

- You may design and implement an interesting analysis; this includes analyses based on abstract interpretation, but also symbolic evaluation, dynamic analysis, verification, model checking, or similar techniques. In this case, describe the goals of the analysis, the techniques you plan to use in designing and implementing it, and how you will evaluate its success.

- You may carry out an empirical evaluation of an existing analysis method and/or tool. In this case, describe the analysis methodology and/or tool you will be using. Also describe the code or other artifact which you will be analyzing and how you will evaluate the tool.

- Other ideas are welcome, contact the instructor.

Whatever case you choose, also describe what you intend to do by the first and second milestones. Your proposal should be about a page of text, and is worth 50 points.