

210: Compiler Design

Spring 2018

Homework C

Code review session: Thursday, April 19, 2018, 15:15

Report: Thursday, April 26, 2018, 23:59

10 Points

Introduction

This homework requires you to participate in a code review. In the code review, your code will be reviewed by other teams and vice-versa. You are required to comment on other teams' implementation, for example, on obvious implementations mistakes or on a particular (good or bad) code style. This year the solutions submitted to HW 1 (simple code generator) will be reviewed. You are not expected (or allowed) to modify your solution.

The code review takes place on Thursday, April 19 at 15:15. The location of the meeting will be announced via email. Students who cannot attend the meeting must inform the teaching assistants (by e-mail) so that another team can review the assigned projects.

Description

You will receive a list of groups by e-mail. Your team is assigned to one of the groups and will receive a team number from 0 to $N - 1$ ($N =$ size of group). Team m is responsible to fill the roles of "moderator" and "scribe" for team $m + 1$, and to review the projects of the three following teams ($m + 2$, $m + 3$ and $m + 4$). Please use "wrap-around" for the team numbers.

You find the source code for each team at the following URL:

https://svn.inf.ethz.ch/svn/trg/cd_students/ss18/review/<team_name>/HW1/

During review session, each team (the authors) will present their code to the group. You can prepare slides or present the source code directly. If you choose the latter, please make sure to present your code in an orderly fashion. The presentation must not exceed 5 minutes and the order is based on the team number.

After each presentation, there will be a 10 minutes discussion that is lead by the moderator for the current team. During the discussion, the reviewers should give feedback to the authors and the scribe should take notes.

The moderator makes sure that the discussion moves in an orderly manner and may also check with the scribe if the discussion can proceed. The scribe is free to ask questions and to request clarifications. The scribe takes note of the comments that were raised during the review. The goal is not to capture all sentences but to help someone who was not present at the meeting to understand what happened. You can assume that the reader of the report is familiar with the code base or has access to it.

The review sessions will be attended by a teaching assistant. She or he will help the moderator if needed and will determine the number of points given to each team.

Tasks

1. (Team) Find out for which solutions your team is the moderator and the scribe. It is up to your team how to divide the work (i.e., the moderator can also be a scribe).

Points will be given to a team, all members receive the same number of points and it is up to your team how you divide the work.

2. (Individual) Look at the code written by other participants. If you are team m in your group, start with reading the code for team $m + 2$, then take $m + 3$, etc.
Keep track of how much time you spend on reading code and how many solutions you manage to read. (You should read at least 3 solutions, but we will not impose a fixed number as we recognize that some solutions may be harder to read than others.)
You do not have to read the code of the solution(s) for which you assume the role of moderator or scribe. But you are welcome to look at these solutions as well.
3. (Team) Reconcile your team's comments. You don't have to produce figures etc, just a few lines of comments are sufficient.
4. (Team) Decide how you present your code. You may give the presentation together or you may decide that only one of you will present.
5. (Team) If your team cannot attend the meeting on Thursday, April 19, please inform the teaching assistants **as soon as possible**.
6. (Team) Participate in the review. Provide comments, answer questions.
7. (Team) Produce a review report after the review and submit the report (see below) by Thursday, April 26. Please note that other homeworks are running in parallel and may have the same due date! We suggest that you finish the report on Friday right after the review meeting, or as soon as possible thereafter (while everything is still fresh in your head).

Grading

Your team's grade for this homework will be determined by your presentation, by your participation in the review (both as a moderator and as a reviewer), by your writeup (when you act as a scribe), and by the comments file you submit when reviewing teams (Point 3 above). You will *not* be graded based on the quality of your solution to HW 1.

Turn in

1. Please turn in the code comments for each team you reviewed into *that team's* HW1 folder before the review, i.e., Thursday, April 19, 15:15. This file should be called `YOURTEAM.txt` and include the information collected in Point 3 above.
2. Please turn in a single text file named `report.txt` that contains the report that your team produced (as scribe). Please put this file into the `HWC` directory of your own team's subversion repository. The deadline for this is Thursday, April 26.