COMP 520 Compiler Design
Final Report

Code Generation for GoLite

Due: Friday, May 1 11:59 PM

Overview

This is the final submission for your project, and it allows us to evaluate the overall quality of your submission. There is no programming required for this part, however if there are lingering issues from earlier milestones, fixing them will increase the quality of your submission for our evaluation.

Question 1: *Final Compiler* (30 points)

For the final compiler we will re-run all tests from previous milestones and evaluate the overall completion. All work throughout the semester fixing previous milestones will pay off greatly here!

Question 2: *Final Report* (10 points)

The final report for the GoLite project allows you to summarize and showcase your project and what you have achieved. You should have the following sections in your report:

- **Introduction:** Overview of Go and GoLite, and the structure of your report

- **Language and Tool Choices:** Choices of implementation language/tool, and target language

- **Scanner, Parser, AST, Weeder, Symbol Table, Typechecker, Code Generator:** Overview, major design decisions, testing

- **Conclusion:** Summary of your experience and any decisions you would change if you had the opportunity

- **Contributions:** Briefly describe the contributions of each group member to the overall project

- **References:** All references used for the project

Question 3: *Group Meeting* (10 points)

The final step is a group meeting between your team and the instructor where we discuss your report, the final submission, and your thoughts. This will allow us to evaluate your contributions and the overall quality of your compiler.

What to hand in

Submit your final report on myCourses under the "Final Report" assignment box.

Create a tag in your Github repository named *pineapple* (`http://git-scm.com/book/en/v2/Git-Basics-Tagging`). Your project must be kept in the following format:

```
/
    README    (Names, student IDs, any special directions for the TAs)
    programs/
        1-scan+parse/
            valid/
            invalid/
        2-typecheck
            invalid/
        3-benchmarks+codegen/
            valid/
    doc/        (Design documents)
    src/        (Source code and build files)
    execute.sh (Updated execute script)
    build.sh   (Updated build script)
    run.sh     (Updated run script)
```