Milestone #7: Optimizations

Overview
For this milestone, your compiler will apply one additional “optimization”.

Optimization of Your Choosing
Select and implement an optimization of your choice. The following list contains some of the optimizations that you might consider.

- Local Value Numbering
- Global Redundancy Elimination (Common Subexpression Elimination)
- Loop Invariant Code Motion
- Tail-Recursion Elimination
- Tail-Call Optimization
- Function Inlining
- Copy Propagation
- CFG Simplification

If you would like more information on a specific algorithm, just ask.

Note: If you are going to “make up” your own optimization, then you must check with me for approval before the end of lab one week prior to this milestone’s demonstration date.

Command-line Options
You should provide command-line options to prevent either of the analyses. This will allow you to view the results of each optimization independent of the other (and any others to come).