Milestone #4: Register Allocation

Overview

For this milestone, your program must perform register allocation (using the graph coloring-based algorithm discussed in lecture) on the generated x86_64 assembly. The resulting output from this stage of the project should be valid assembly that can be assembled, linked, and executed.

Command-line Options

You may find it useful to provide a command-line option to prevent register allocation. This will allow you to view the assembly code just prior to allocation which can help a great deal in both debugging and tracing any changes made by subsequent phases (if you were to implement any).