# Exploration #2

Due: April 25, 11:59pm

## Overview

For this exploration you will use `gcc` to generate assembly code for a program that makes function calls (linked from the course website).

## Unoptimized

Generate an unoptimized version of the above program on one of the department `unix?` servers using `gcc -S unopt.c`.

Annotate each of the assembly instructions in the generated `unopt.s` file to explain what the instruction contributes to the computation. You do not need to annotate the directives (those pseudo-intructions that begin with a .). Your annotations should improve clarity by linking register names to the original variable names in the source program. The annotations are not meant to be English rewordings of the instructions.

## View Optimized

You will **not** submit an annotation of the optimized version of this program. Instead, generate the optimized version (with the **-O3**) flag, and submit a file named `what_calls` containing an explanation of what happened to the function calls (and the computation of $10^2$).

## handin

Submit your annotated `unopt.s` and `what_calls` files to the `431exploration2` directory for the `akeen` account.