Jack Glass
UCID: 101052430

Compilation

Program has been tested with the following configuration
```

The Meson build system
Version: 0.53.2
C compiler for the host machine: cc (gcc 9.3.0 "cc (Ubuntu 9.3.0-17ubuntu1~20.04) 9.3.0")
C linker for the host machine: cc ld.bfd 2.34
Host machine cpu family: x86_64
Host machine cpu: x86_64
Program bison found: YES (/usr/bin/bison)
Program flex found: YES (/usr/bin/flex)
Found pkg-config: /usr/bin/pkg-config (0.29.1)
Run-time dependency libfl found: YES 2.6.4
Found ninja-1.10.0 at /usr/bin/ninja
```

With Build System

To get meson, type the following
`sudo apt install meson`

You should get all the required dependencies from there.
To compile, simply input the following
```

meson setup build
cd ./build
ninja
```

I didn't go with make because it was more work, a lot more confusing and a lot more error prone.

Without Build System

Meson is required.

What works

Evaluates everything required in the assignment. Bonus not attempted. The test files that are included in ./test are features that I have tested against.

How to use

Once the executable has been generated, you can use it in the following ways

`./calc <path to file> <path to code output>`
- ● Will execute the program on the provided file
- ● Will generate the output program to the file path specified
- ● Prints the analysis output to the standard output

`./calc <path to file> <path to code output> <path to analysis output>`
- ● Will execute the program on the provided file
- ● Generates the output program to the file path specified
- ● Prints the analysis to the other file path specified