

# CS335 Project Milestone 1

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## Tools Used

We did lexical analysis using *flex* and parsing using *bison*. To automate compiling we used *Makefile* and to make graphs we used *graphviz*. Our codebase is written in *C* programming language.

## Flags Available

The flags available are :

- `--input=` : Used to specify path to input file
- `--output=` : Used to specify path to output file
- `--verbose` : Used to switch on the debugger of bison
- `--help` : Used to load the help page

## Compilation

To compile the parser for the first time, on the Milestone\_1 directory run the following command on the command line.

```
make parse
```

If you want to rebuild the parser then run the following commands from the Milestone\_1 directory on the command line:

```
make clean  
make parse
```

If you want to run our test suites in an automated manner run the following command from the Milestone\_1 directory on the command line:

```
make test
```

then you would be asked for the test suite number. If you suppose you picked test suit x, then the files test\_x.dot and test\_x.pdf can be found in the tests folder. If you want to run your own test cases then use the following commands from the Milestone\_1 folder on the command line :

```
cd bin  
./parser --input = < Path to Input File > --output = < Path to output file >
```

This would generate the .dot file. To convert the .dot file to pdf format run the following code :

```
dot -Tpdf < Path to Input File > -o < Path to Output File >
```