



CS335 Compiler

MileStone 1

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1 Requirements

- $g++ \geq 11$, $gcc \geq 11$
- flex/flex++
- Bison
- Graphviz

2 Execution Instructions

Compilation and Execution Instructions

```
1 make
2 ./build/milestone/javap --input <input-file-name> --output <output-file-
  name>
3 dot -Tpng <dot_script> > <output_png_file>
```

To parse all the testcases in tests folder, execute run.sh script.

Command Line Options

```
1 Usage: javap [-h] --input VAR --output VAR [--verbose]
2
3 Optional arguments:
4 -h, --help      shows help message and exits
5 -v, --version   prints version information and exits
6 --input         java file to parse [required]
7 --output        output dot file [required]
8 --verbose       increase output verbosity for parser
```

Additional Features Added

- Support for Strings, including a few operations like concatenation, support for printing with `println()`
- Support for Interfaces

- Type casting
- Inner classes
- Constructors
- Import statements
- Packages
- Switch Statements, Try Catch blocks, do while statements
- Class Instance Initialization
- Inheritance in classes and interfaces