



Milestone 1

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Course: CS335

Group No. 3

Team Members:

- Manasvi Jain - 210581
- Sarthak Kalankar - 210935
- Saugat Kannoja - 210943

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1 Compilation and Execution Instructions

1.1 Setup

1. Extract or clone the main folder where all the source files are inside 'milestone1' directory.
2. Download the following libraries in milestone1 directory: graphviz, bison, flex.

```
1 sudo apt-get update
2 sudo apt-get install flex
3 sudo apt-get install bison
4 sudo apt-get install graphviz
```

1.2 Running the shell script

1. Run the wrapper shell script 'main_script.sh' in **milestone1** directory by the following commands (First command to be executed if you encounter an error while executing the script) :

```
1 sed -i 's/\r$//' src/main_script.sh
2 ./src/main_script.sh --input tests/test1.py --verbose
```

2. The wrapper script supports the functions for input, output, help, verbose whenever required.
3. Execute the following command to get an idea of how to run the script:

```
1 ./src/main_script.sh --help
```

2 Assumptions

1. We have implemented the basic grammar that was provided in Python 3.6 removing the unnecessary productions.
2. We have assumed that the input will consist of indents with even number of spaces.
3. We have removed all reduce-reduce conflicts and shift-reduce conflicts from the grammar.

3 Errors Reported

1. We have reported an error if we get spaces after '\n' in explicit line joining.
2. We have reported an error for erroneous strings when there are ''' in a multiline string that starts/ends with triple single quotes(same for double quotes).
3. Improper indentation is also reported with the line number where it occurs.