

CS335: Compiler Design

Assignment 1

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1 Problem 1

1.1 Compilation commands

```
flex prob1.l
g++ -std=c++17 -o prob1 lex.yy.cc
```

1.2 Execution instructions

Let's say the input file is `testcase.knp`. Run `prob1` using the command:
`./prob1 < testcase.knp`

1.3 Other details

- Output format: Illegal characters and ill-formed strings, if any, are reported along with the line numbers in the source code. The scanner does not terminate after reporting any errors. Then the required output is printed using `std::setw()`.
- Ill-formed strings can either be due to unclosed single or double quotes, double-quoted strings having single quotes included in the literal, or single-quoted strings having double quotes included in the literal.

2 Problem 2

2.1 Compilation commands

```
flex prob2.l
g++ -std=c++17 -o prob2 lex.yy.cc
```

2.2 Execution instructions

Let's say the input file is `testcase.f08`. Run `prob2` using the command:
`./prob2 < testcase.f08`

2.3 Other details

- Output format: Illegal characters and ill-formed strings, if any, are reported along with the line numbers in the source code. The scanner does not terminate after reporting any errors. Then the required output is printed using `std::setw()`.
- Ill-formed strings can either be due to unclosed double quotes, or double-quoted strings having single quotes included in the literal.