

# CS506-P2-README

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## Files

This project requires us to write a scanner for language *wumbo*. The files we wrote are:

- *wumbo.jlex*: define regular expression for each token and its corresponding action
- *P2.java*: reads from input file, generates scanner, and writes all tokens into output file
- *allTokens.in*: all our test cases, including valid and invalid ones exhaustively
- *allTokens.ans*: manually written correct answer, used to be compared with generated output

## Testing

All of our test cases are written in file *allTokens.in*.

- The first part is a comprehensive test which should contain no error messages. The generated tokens are **written into file *allTokens.out***.
- The second part is a comprehensive test for all kinds of error messages. The generated error messages are **printed into the console**.

To run our program, type the following in command line:

```
> make; make test
```

It will automatically read from input file *allTokens.in*, write to output file *allTokens.out*, and compare the output with correct answer *allTokens.ans*. The error messages will be printed on console, which should be:

```
54:1 ***ERROR*** ignoring illegal character: \  
54:4 ***ERROR*** ignoring illegal character: #  
62:1 ***ERROR*** unterminated string literal ignored  
63:1 ***ERROR*** unterminated string literal ignored  
64:1 ***ERROR*** unterminated string literal ignored  
65:1 ***ERROR*** unterminated string literal ignored  
70:1 ***ERROR*** string literal with bad escaped character ignored  
71:1 ***ERROR*** string literal with bad escaped character ignored  
72:1 ***ERROR*** string literal with bad escaped character ignored  
77:1 ***ERROR*** unterminated string literal with bad escaped character  
ignored  
78:1 ***ERROR*** unterminated string literal with bad escaped character  
ignored  
79:1 ***ERROR*** unterminated string literal with bad escaped character  
ignored  
80:1 ***ERROR*** unterminated string literal with bad escaped character  
ignored  
86:1 ***WARNING*** integer literal too large; using max value  
87:1 ***WARNING*** integer literal too large; using max value  
91:1 ***ERROR*** unterminated string literal ignored
```

