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Fall 2018

CECS 424 Assignment 2

Financial quantities in American notation. These have a leading dollar sign ($), an optional string of asterisks (\*—used on checks to discourage fraud), a string of decimal digits, and an optional fractional part consisting of a decimal point (.) and two decimal digits. The string of digits to the left of the decimal point may consist of a single zero (0). Otherwise it must not start with a zero. If there are more than three digits to the left of the decimal point, groups of three (counting from the right) must be separated by commas (,). Example: $\*\*2,345.67. (Feel free to use “productions” to define abbreviations, so long as the language remains regular.)

Use the following expressions only:

1. A character
2. The empty string
3. Parenthesis
4. Concatenation
5. ‘or’
6. Kleene star. (Please use superscript star symbols,\* )

**Solution**

Digit = [0|1|2|3|4|5|6|7|8|9]

Nonzero = [1|2|3|4|5|6|7|8|9]

$ (\*)\* (0 | (nonzero digit digit | nonzero digit | nonzero) (, digit digit digit)\*) ( | . digit digit)