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CS536 — HW2
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QUESTION 1

1. `{SLASH}{STAR}([*]*{STAR}+[*/])*{STAR}+{SLASH}`

Incorrect

This RegEx does not allow the comment to have alone asterisk and slash or a long comment with either continued asterisk or slash.

Not accept:
`/* ***** */`

2. `{SLASH}{STAR}([*]| [*/])+{STAR}{SLASH}`

Incorrect

1) This RegEx does not allow empty comment.

Not accept:
`/* */`

2) May have `*/` present in the comment.

Will accept but bad:
`/* */ */`

3. `{SLASH}{STAR}(.)*{STAR}{SLASH}`

Incorrect

1) `*/` may present in the comment since `(.)*` can match with the end characters.

Will accept but bad:
`/* Hello *//* World */`

2) Will not allow new lines since `(.)*` can't match.

Not accept:
/*
Hello World
*/

4. $\{SLASH\}\{STAR\}([\^*]|(\{STAR\}+[\^*/]))*\{STAR\}+\{SLASH\}$

Correct!

5. $\{SLASH\}\{STAR\}[\^(* /)]*\{STAR\}\{SLASH\}$

Incorrect

Does not allow for right paren, asterisk, slash and left paren.

Not accept:

/* (Hello * World/) */

Question 2

$((\#) | (//)) (\^(\backslash n)) *\backslash n$