

Homework 2 Solution

Question 1:

`{SLASH}{STAR}[^(*/)]*{STAR}{SLASH}`

- Doesn't allow parentheses, stars, or slashes in the comment body: (good comment example) `/* (*/) */`

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

- Allows `*/` in the comment body: (bad comment example) `/* a */ */`
- Doesn't allow a newline in the comment body: (good comment example)
`/* this is a
multi-line comment */`

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

- Doesn't allow a non-empty comment body without a star: (good comment example) `/* a */`

`{SLASH}{STAR}([^{*}]|^[^/])*{STAR}{SLASH}`

- Allows `*/` in the comment body: (bad comment example) `/* */ */`
- Doesn't allow a comment with an empty body: (good comment example) `/**/`

`{SLASH}{STAR}[^{*}]{STAR}+{SLASH}+`

- Allows multiple `/` after the end of the comment: (bad comment example) `/* *////`
 - Doesn't allow non-star to appear after a star in the comment body: (good comment example) `/* *a */`
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Question 2:

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