

Homework 4 answer

- #8

Consider integer values of a, b, and c, and the expression $(a + b) * c$. In mathematics, we can substitute square brackets, [], or curly braces, { }, for parentheses, (). Is that same substitution valid in Python? Try it.

ANS:

No, the substitution is not valid in Python. [] is for list, and { } is for dictionary. These two kinds of brackets cannot be used in mathematics.

- #14

Give the expression: $30 - 3^{} 2 + 8 // 3^{**} 2 * 10$**

(a) What is the output of the expression? (You can check your answer in the Python shell.)

ANS:

Output is 21

(b) Based on precedence and associativity of the operators in Python, correctly parenthesize the expression such that you get the same output as above.

ANS:

$30 - (3^{**} 2) + ((8 // (3^{**} 2)) * 10)$