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Question

Evaluate the following expression and show your computation step by step.

int $p = 2, q = 7, r = 17, s = -2;$

$s *= p * (r \% 7) + q / 3 + p --;$

Answer

$$s *= p * (r \% 7) + q / 3 + p --.$$

$$s = (-2) * 2 (17 \% 7) + 7 / 3 + p --$$

$$= (-2) * 2 (3) + 2 + 2 \quad \text{value used in expression: } p = 2$$

$$= (-2) * 6 + 2 + 2$$

$$= (-2) * 10$$

$$s = \underline{-20} \#$$

new value of p (after evaluation): $p = 2 - 1 = 1$