

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

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

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

$$= (-2) * 2 (3) + 2 + 2$$

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

$$= (-2) * 10$$

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

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