

CS1285 Problem 5 Expressions - NICK WRIGHT

Assume: $A=8, B=12, C=2, D=3, E=15, F=4$

Expression 1: $A @ (2 \cdot (A - (C \cdot D))) + (9 \cdot B / (2 \cdot (C + 1)) - B \cdot 3) + E \% (A - F)$

$$8 @ (2 \cdot (8 - 2 \cdot 3)) + (9 \cdot 12 / (2 \cdot 2 + 1) - 12 \cdot 3) + 15 \% (8 - 4)$$

$$8 @ (2 \cdot (2)) + (9 \cdot 12 / (5) - 12 \cdot 3) + 15 \% (4)$$

$$8 @ (4) + (108 / (5) - 36) + 15 \% 4$$

$$8 @ (4) + (21.6 - 36) + 15 \% 4$$

$$8 @ (4) + -14.4 + 15 \% 4$$

$$4096 + -14.4 + 3$$

$$4084.6 = \boxed{4084}$$

Expression 2: $B \cdot (3 @ (A - D)) \% (B - (C @ D)) + 4 @ D \cdot 2$

$$12 \cdot (3 @ (8 - 3)) \% (12 - 2 @ 3) + 4 @ 3 \cdot 2$$

$$12 \cdot (3 @ (5)) \% (4)) + 4 @ 3 \cdot 2$$

$$12 \cdot (243 \% (4)) + 4 @ 3 \cdot 2$$

$$12 \cdot (3) + 64 \cdot 2$$

$$36 + 128$$

$$\boxed{164}$$