ICS-365 HW8

\* Due Date – See Class Schedule \*

**Assume the following rules of associativity and precedence for expressions:**

**Precedence:** Highest \*, /, not

+, –, &, mod

- (unary)

=, /=, <, <=, >=, >

and

Lowest or, xor

**Associativity:** Left to right

Show the order of evaluation of the following expressions by parenthesizing all subexpressions and placing a superscript on the right parenthesis to indicate order. For example, for the expression **a + b \* c + d**, the order of evaluation would be represented as

**((a + (b \* c)1 )2 + d)3**

1. a \* b – 1 + c

( ( ( a \* b )1 - 1 )2 + c )3

1. a \* (b – 1) / c mod d

( ( ( a \* ( b - 1 )1 )2 / c )3 mod d )4

1. (a – b) / c & (d \* e / a – 3)

( ( ( a - b )1 / c )5 & ( ( ( d \* e )2 / a )3 - 3 )4 )6

1. -a or c = d and e

( ( ( - a )1 or ( c = d )2 )3 and e )4

1. a > b xor c or d <= 17

( ( ( a > b )1 xor c)3 or ( d <= 17 )2 )4

1. -a + b

( - ( a + b )1 )2