Basic Expressions in C++  -- you’ll see a few more later

( )  parentheses just as normal
log(...)  etc, functions with values.
~ ! + -  UNARY operators
* / %  multiply divide remainder
+ -  add subtract
< > <= >=  comparisons -> bool
== !=  equal and not-equal comparisons
&  bitwise and
^  NOT to the power of but exclusive or
|  bitwise or
&&  logical and
||  logical or

false && false = false  logical and
false && true  = false
true && false = false
true && true  = true
false || false = false  logical or
false || true  = true
true || false = true
true || true  = true
! false = true  logical not
! true  = false

examples on next page
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0 0 1 0 1 0 1 = 21
0 1 0 1 0 1 1 = 43

0 1 1 1 1 1 0 = 62 = 21 ^ 43 exclusive or
0 1 1 1 1 1 1 = 63 = 21 | 43 bitwise or
0 0 0 0 0 0 0 1 = 1 = 21 & 43 bitwise and
1 0 1 0 1 0 0 = 84 = ~ 43 bitwise not