

Logical Expressions

Rex is happy if he is eating a bone **or** he is sleeping
and
it is **not** raining

There are 3 *inputs* to this statement.

b = eating bone

s = is sleeping

r = raining

We can simplify the expression as follows:

output is true if $(b \text{ OR } s) \text{ AND NOT } r$

From this statement we can deduce the logic circuit and the truth table:



