

## On the Subject of Bitwise Operations

*Nobody's favorite kind of math. Who even likes math, anyway?*

- Use the two bytes obtained from the tables below, and the operator from the display, to determine the answer.

Byte 1	Byte 2
No AA Batteries	$\geq 1$ D battery
Parallel port	$\geq 3$ ports
Lit NSA	$\geq 2$ battery holders
# Of modules > Starting time	Lit BOB
$\geq 2$ Lit Indicators	$\geq 2$ unlit indicators
Modules $\div 3$	Last SN digit is odd
$\leq 1$ D battery	Even # of modules
$\leq 3$ ports	$\geq 2$ batteries

This module includes needy modules when it refers to the number of modules.

Here is a table of explanations of each bitwise operator:

Info	AND	OR	XOR	NOT
HOW	B1 correct + B2 correct = 1, otherwise 0.	B1 correct OR B2 correct = 1, otherwise 0.	<u>EXACTLY</u> 1 Byte correct = 1, otherwise 0.	Ignore B2. B1 correct = 0, otherwise 1.

*(Bytes are referred to as "B1" and "B2" respectively.)*

XOR

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0 0 1 0 1 1 1 1

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