2_operators

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1 Operators and comparisons

Most operators and comparisons in Python work as one would expect:

• Arithmetic operators +, -, *, /, // (integer division), '**' power

```
(3, -1, 2, 25)
(3.0, -1.0, 2.0, 0.5)
2.0
```

Note: Division

True

The / operator always performs a floating point division in Python 3.x. This is not true in Python 2.x, where the result of / is always an integer if the operands are integers. To be more specific, 1/2 = 0.5 (float) in Python 3.x, and 1/2 = 0 (int) in Python 2.x (but 1.0/2 = 0.5 in Python 2.x).

The boolean operators are spelled out as the words and, not, or.

```
True

True

False

Comparison operators >, <, >= (greater or equal), <= (less or equal), == equality, is identical.
(True, False)

(False, False)

(True, True)

False</pre>
```