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[R131] This implementation detail is that Python provides no reliable method to determine that a chained inequality is being built. Chained comparison operators are evaluated pairwise, using "and" logic (see http://docs.python.org/reference/expressions.html#not-in). This is done in an efficient way, so that each object being compared is only evaluated once and the comparison can short-circuit. For example, `1 > 2 > 3` is evaluated by Python as `(1 > 2) and (2 > 3)`. The `and` operator coerces each side into a bool, returning the object itself when it short-circuits. The bool of the –Than operators will raise TypeError on purpose, because SymPy cannot determine the mathematical ordering of symbolic expressions. Thus, if we were to compute `x > y > z`, with `x`, `y`, and `z` being Symbols, Python converts the statement (roughly) into these steps:

(1) x > y > z

(2) (x > y) and (y > z)

(3) (GreaterThanObject) and (y > z)

(4) (GreaterThanObject.__bool__()) and (y > z)

(5) TypeError

Because of the `and` added at step 2, the statement gets turned into a weak ternary statement, and the first object's `__bool__` method will raise TypeError. Thus, creating a chained inequality is not possible.

> In Python, there is no way to override the `and` operator, or to control how it short circuits, so it is impossible to make something like `x > y >

z work. There was a PEP to change this, **PEP 335**, but it was officially closed in March, 2012.

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(3) (GreaterThanObject) and (y > z)

(4) (GreaterThanObject.__bool__()) and (y > z)

(5) TypeError

Because of the `and` added at step 2, the statement gets turned into a weak ternary statement, and the first object's `__bool__` method will raise TypeError. Thus, creating a chained inequality is not possible.

In Python, there is no way to override the `and` operator, or to control how it short circuits, so it is impossible to make something like `x > y > z` work. There was a PEP to change this, **PEP 335**, but it was officially closed in March, 2012.

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