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0.1   Tuples

We can get a list of sets in an order. A 2-tuple is an ordered pair:

(a, b)

We can write an ordered pair of a and b as:

$\{\{a\}, \{a, b\}\}$

Ordred pair definition, and tuple

$(a, b) = (c, d) \leftrightarrow (a = c \wedge b = d)$

This is the characteristic property.