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chain condition

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Defines chain condition

Defines countable chain condition

Defines κ -chain condition

Defines c.c.c.
Defines ccc

A partial order P satisfies the κ -chain condition if for any $S \subseteq P$ with $|S| = \kappa$ then there exist distinct $x, y \in S$ and some p such that $p \leq x$ and $p \leq y$.

If $\kappa = \aleph_1$ then P is said to satisfy the countable chain condition (c.c.c.)