



Math for the people, by the people.

descending chain condition

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Synonym	DCC

A partially ordered set  $S$  (for example, a collection of subsets of a set  $X$ , ordered by inclusion) satisfies the *descending chain condition* or *DCC* if there does not exist an infinite descending chain  $s_1 > s_2 > \cdots$  of elements of  $S$ .

See also the ascending chain condition (ACC).