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A note on uniform semilattices. (Chinese. English summary)  

Summary: In this paper, the infinite chain which satisfies the maximal condition must be a uniform semilattice is proved. By exploring the relationship between the uniform semilattice and the maximal condition, the sufficient and necessary conditions for uniform semilattice to be an infinite chain satisfying maximal condition are given. Finally, the relation between the uniform semilattice and the minimal condition and the relation between the antiuniform semilattice and the maximal condition are discussed, and the corresponding examples are given.

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