Let $\mathcal{V}$ be a finitely generated congruence-distributive variety of algebras, and let $\text{Con}\mathcal{V}$ be the class of all congruence lattices of algebras in $\mathcal{V}$. We consider the problem of characterizing the finite members of $\text{Con}\mathcal{V}$. Such a description is not difficult under the additional condition that the congruence lattices of all subdirectly irreducible members of $\mathcal{V}$ are chains. However, without this assumption, the situation is much more difficult and we can only present some partial results and ideas.

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