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Title: A non-power-hereditary congruence lattice representation of $\mathbf{M}_3$

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We construct a finite algebra with congruence lattice isomorphic to $\mathbf{M}_3$ such that not every sublattice of the direct square of the congruence lattice can be obtained as a congruence lattice using any additional operations. The construction is based on the Higman–Sims group.

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