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Ruth Haas*, Department of Mathematics, Smith College, Northampton, MA 01063. *Conjectures and questions in graph reconfiguration.*

The reconfiguration problem asks whether one feasible solution to a problem can be transformed into another by some allowable set of moves, while maintaining feasibility at all steps. These can be studied via the reconfiguration graph in which the vertices are the feasible solutions, and two solutions are adjacent if and only if one can be obtained from the other by one application of a specific reconfiguration rule. In this talk we will look at conjectures and motivating questions about reconfiguration in graph coloring and graph domination. (Received September 14, 2013)