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Alexander Garver (garv0102@math.umn.edu), University of Minnesota, and **Jacob P. Matherne*** (jmath34@tigers.lsu.edu), Louisiana State University. *Linear Extensions and Exceptional Sequences*. Preliminary report.

A classical problem in combinatorics is to count the linear extensions of a poset. We consider a class of posets that index certain equivalence classes of complete exceptional sequences of modules over the path algebra of the linearly ordered quiver. It turns out that there is a bijection between such equivalent complete exceptional sequences and the linear extensions of the corresponding poset. We describe a method for counting the linear extensions of these posets. (Received September 16, 2014)