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Devyn A. Leshner* (dal64360@huskies.bloomu.edu) and **Chris D. Lyd.** *Difference Equations and the Class of Periodic Left Nested Radicals.*

Since the time of the ancient Greeks, mathematicians have been fascinated with nested radicals. We will provide a variety of examples of left and right nested radicals as we present a brief history of this topic and illustrate its connection to difference equations. We also provide the formal definition of a left and a right nested radical as we present the first of several new results about the class of periodic left nested radicals. (Received August 23, 2014)