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Thomas French*, Thomas.French@du.edu. *Follower and extender set sequences of one-dimensional shifts.*

Given a one-dimensional shift X , let $|F_X(\ell)|$ be the number of follower sets of words of length ℓ in X . We call the sequence $\{|F_X(\ell)|\}_{\ell \in \mathbb{N}}$ the follower set sequence of the shift X . Extender sets are a generalization of follower sets, and we define the extender set sequence similarly. We show some connections between follower and extender set sequences and complexity sequences of one-dimensional shifts, but also some surprising differences. In particular, the follower and extender set sequences of a one-dimensional shift need not be monotone increasing, and even when the shift is sofic, they may be eventually periodic rather than eventually constant. (Received February 15, 2016)