Weak compactness is not equivalent to the fixed point property in c. We show that there exists a non-weakly compact, closed, bounded, convex subset W of the Banach space of convergent sequences \((c, \| \cdot \|_{\infty})\) such that every nonexpansive map \(T : W \to W\) has a fixed point. This answers a question left open in the 2003 and 2004 papers of Dowling, Lennard and Turett. It is also the first example of a non-weakly compact, closed, bounded, convex subset W of a Banach space X isomorphic to \(c_0\), for which W has the fixed point property for nonexpansive mappings. (Received September 06, 2017)