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Torrey Gallagher, Chris Lennard and Roxana Popescu* (rop42@pitt.edu). *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 $T : W \rightarrow W$ 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)