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Rachel Epstein* (epstein@uchicago.edu), Department of Mathematics, University of Chicago,
5734 S University Ave, Chicago, IL 60637. *Invariance and Automorphisms
of the Computably Enumerable Sets.*

The class of computably enumerable (c.e.) sets forms a lattice \mathcal{E} under inclusion. We say a class of c.e. degrees is *invariant* if it is the set of degrees of a class of c.e. sets that is invariant under automorphisms of \mathcal{E} . The upward closed jump classes \bar{L}_n and H_n have all been shown to be invariant, except for \bar{L}_1 . We show that \bar{L}_1 is noninvariant, proving a 1996 conjecture of Harrington and Soare. (Received August 07, 2009)