# A note on Δ 2 0 -Spectra of linear orderings and degree spectra of the successor relation

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## Abstract

In this paper we construct linear orderings whose $\Delta_2^0$-spectra coincide with classes of all high0 and high1 degrees, respectively. We also prove that there exists a computable linear ordering such that its degree spectrum of the successor relation coincides with a fixed nonempty class of degrees which represents a $\Sigma_1^0$-spectrum of some $\emptyset'$-computable linear ordering. © 2013 Allerton Press, Inc.

## Keywords

degree spectra of the successor relation, linear orderings, spectra