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Stephen G. Hartke* (hartke@unl.edu), Department of Mathematics, University of Nebraska
Lincoln, P.O. Box 880130, Lincoln, NE 68588-0130. *Graphic Gap-Free Sequences*. Preliminary
report.

A nonincreasing sequence of positive integers is said to be gap-free if every number between the maximum and minimum elements appears in the sequence. Long gap-free sequences with even sum are always graphic. This naturally leads to the question of determining the shortest length a non-graphic gap-free sequence with even sum can be. Results will be presented on this question. (Received August 07, 2007)