

[Steinsky, Bertran](#)

A recursive formula for the Kolakoski sequence A000002. (English) Zbl 1104.11012
[J. Integer Seq. 9, No. 3, Article 06.3.7, 5 p. \(2006\).](#)

Recall that the Kolakoski sequence in the (unique) sequence starting with 1 which is equal to the sequence of its runlength on the alphabet $\{1, 2\}$, i.e., the sequence $1221121221 \dots$. The author proposes a recursive formula for the n th term of this sequence as well as for the number of 1's in its first n terms and the sum of its first n terms.

Reviewer: [Jean-Paul Allouche \(Orsay\)](#)

MSC:

[11B83](#) Special sequences and polynomials
[11Y55](#) Calculation of integer sequences

Keywords:

[Kolakoski sequence](#)

Software:

[OEIS](#)

Full Text: [EMIS](#) [EuDML](#)