

The On-Line Encyclopedia of Integer Sequences¹

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Abstract

We all recognize 0, 1, 1, 2, 3, 5, 8, 13, ... but what about 1, 2, 4, 6, 3, 9, 12, 8, 10, 5, 15, ...? If you come across a number sequence and want to know if it has been studied before, there is only one place to look, the *On-Line Encyclopedia of Integer Sequences* (or *OEIS*). Now in its 48th year, the OEIS contains over 200,000 sequences and 15,000 new entries are added each year. This article will briefly describe the OEIS and its history. It will also discuss some sequences generated by recurrences that are less familiar than Fibonacci's, due to Greg Back and Mihai Caragiu, Reed Kelly, Jonathan Ayres, Dion Gijswijt, and Jan Ritsema van Eck.

1 The Fibonacci numbers.

The Fibonacci numbers have been in the On-Line Encyclopedia of Integer Sequences[Ⓢ] (or OEIS[Ⓢ]) right from the beginning. When I started collecting sequences as a graduate student in 1964, the Fibonacci numbers became sequence A000045 (incidentally, 48 years later, sequences being added have A-numbers around A217000²). Over 3000 sequences in the OEIS mention Fibonacci's name in their definition.

Some especially noteworthy variations on the Fibonacci numbers were recently defined by Back and Caragiu [2] in the *Fibonacci Quarterly*. The simplest of their examples replaces the Fibonacci recurrence by

$$a(n) = \text{gpf}(a(n-1) + a(n-2)), \quad (1)$$

where *gpf* stands for *greatest prime factor* (A006530). If we start with 1, 1 we get

$$1, 1, 2, 3, 5, 2, 7, 3, 5, 2, 7, \dots \quad (2)$$

(A175723), and the cycle 3, 5, 2, 7 repeats for ever. Back and Caragiu show that no matter what the initial values are, (1) always becomes periodic and that 3, 5, 2, 7 is the only nontrivial cycle. On the other hand, consider

$$a(n) = \text{gpf}(a(n-1) + a(n-2) + a(n-3)). \quad (3)$$

¹Based on an invited talk given at the Fifteenth Conference on Fibonacci Numbers, Eger, Hungary, June 2012

²Throughout this article, six-digit numbers prefixed by A refer to entries in the OEIS [15]. As in the OEIS, we adopt the convention that $a(n)$ denotes the n th term of the sequence being discussed.

Encyclopedia Of Integer Sequences

**Andrew Adamatzky, Georgios Ch.
Sirakoulis, Genaro J. Martinez**



Encyclopedia Of Integer Sequences:

The Encyclopedia of Integer Sequences N. J. A. Sloane, Simon Plouffe, 1995-04 This encyclopedia contains more than 5000 integer sequences over half of which have never before been catalogued Because the sequences are presented in the most natural form and arranged for easy reference this book is easier to use than the authors earlier classic *A Handbook of Integer Sequences* The Encyclopedia gives the name mathematical description and citations to literature for each sequence Following sequences of particular interest there are essays on their origins uses and connections to related sequences all cross referenced A valuable new feature to this text is the inclusion of a number of interesting diagrams and illustrations related to selected sequences The initial chapters are both amusing and enlightening They serve as a delightful introduction to the subject and a short course on how to identify and work with integer sequences This encyclopedia brings Sloane's ground breaking *Handbook* up to date more than doubling its size and linking both the old and the new material to an extensive bibliography over 25 pages long of current and classic references An index to all the sequences in the book is also available separately on disk in Macintosh and IBM formats

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