

# The On-Line Encyclopedia of Integer Sequences<sup>1</sup>

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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<sup>®</sup> (or OEIS<sup>®</sup>) 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 A217000<sup>2</sup>). 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

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

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<sup>1</sup>Based on an invited talk given at the Fifteenth Conference on Fibonacci Numbers, Eger, Hungary, June 2012.

<sup>2</sup>Throughout 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

**Peter J. Cameron**



## **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 Key Features Contains more than 5000 integer sequences Gives the name and mathematical description of each sequence Provides citations to literature for each sequence Extensively cross referenced Lists a bibliography of more than 25 pages [On-line Encyclopedia of Integer Sequences](#) ,1999 *Studia Fennica* ,1936 [On-Line Encyclopedia of Integer Sequences](#) ,1999 The main table is a collection of number sequences arranged in lexicographic order The entry for each sequence gives the beginning of the sequence its name or description any references or links any formulae cross references to other sequences and the name of the person who submitted it At the present time the table contains around 50000 sequences **A Handbook of Integer Sequences** Neil James Alexander Sloane, 1973 **A Handbook of Integer Sequences** N.J.A. Sloane, 2014-05-10 A Handbook of Integer Sequences contains a main table of 2300 sequences of integers that are collected from all branches of mathematics and science This handbook describes how to use the main table and provides methods for analyzing and describing unknown and important sequences This compilation also serves as an index to the literature for locating references on a particular problem and quickly finds numbers such as 712 number of partitions of 30 18th Catalan number or expansion of  $\frac{1}{1-x}$  to 60 decimal places Other topics include the method of differences self generating sequences polyominoes permutations and puzzle sequences This publication is a good source for students and researchers who are confronted with strange and important sequences

**Advances in Cellular Automata** Andrew Adamatzky, Georgios Ch. Sirakoulis, Genaro J. Martinez, 2025-04-26 This book embarks on a journey through the captivating universe of cellular automata and discover its distinct realm characterised by discrete time space and states where cells form regular patterns and offer insights into complex systems across various domains From theoretical foundations to practical applications each chapter unveils innovative ideas and implementations from solving initial value problems to exploring reversible computing and real time pattern generation Explore hyperbolic

spaces analyse elementary automata and delve into network growth dynamics Shedding light on synchronisation control and computational structures this book is an invaluable resource for computer scientists modellers mathematicians engineers physicists and professionals across disciplines Immerse yourself in the intricate complexities and boundless potential of cellular automata whether unravelling pedestrian dynamics or exploring cryptographic applications *Handbook of Discrete and Combinatorial Mathematics* Kenneth H. Rosen, 2017-10-19 Handbook of Discrete and Combinatorial Mathematics provides a comprehensive reference volume for mathematicians computer scientists engineers as well as students and reference librarians The material is presented so that key information can be located and used quickly and easily Each chapter includes a glossary Individual topics are covered in sections and subsections within chapters each of which is organized into clearly identifiable parts definitions facts and examples Examples are provided to illustrate some of the key definitions facts and algorithms Some curious and entertaining facts and puzzles are also included Readers will also find an extensive collection of biographies This second edition is a major revision It includes extensive additions and updates Since the first edition appeared in 1999 many new discoveries have been made and new areas have grown in importance which are covered in this edition Mathematical Constants II Steven R. Finch, 2003 Famous mathematical constants include the ratio of circular circumference to diameter  $\pi$  3.14 and the natural logarithm base  $e$  2.718 Students and professionals can often name a few others but there are many more buried in the literature and awaiting discovery How do such constants arise and why are they important Here the author renews the search he began in his book Mathematical Constants adding another 133 essays that broaden the landscape Topics include the minimality of soap film surfaces prime numbers elliptic curves and modular forms Poisson Voronoi tessellations random triangles Brownian motion uncertainty inequalities Prandtl Blasius flow from fluid dynamics Lyapunov exponents knots and tangles continued fractions Galton Watson trees electrical capacitance from potential theory Zermelo's navigation problem and the optimal control of a pendulum Unsolved problems appear virtually everywhere as well This volume continues an outstanding scholarly attempt to bring together all significant mathematical constants in one place **The Call of Coincidence** Owen O'Shea, 2023-06-15 Strange happenstances and chance encounters have puzzled us for centuries This fun and fascinating book takes readers on a journey through the mathematics behind coincidences both famous and never before examined From peculiar patterns in geometry and calculus to the famous Waring Problem and other astonishing numerical curiosities The Call of Coincidence begins by examining the mathematical properties that underpin everything there is Next author Owen O'Shea along with fictional guides Charlie Chance and the enigmatic Dr Moog reveals surprising connections and correlations throughout history including numerical coincidences behind the reign of King Richard III the sinking of the SS Edmund Fitzgerald the 1996 FIFA World Cup and much much more By investigating the properties puzzles and problems within you will gain a newfound appreciation for the beautiful simplicity of mathematics in its many forms Featuring surprising trivia gems

alongside serious questions like why there is something rather than nothing readers will be enriched by this exploration of remarkable number coincidences and the mathematics that make them possible and probable **Imagine Math 2** Michele Emmer,2013-10-04 Imagine mathematics imagine with the help of mathematics imagine new worlds new geometries new forms The new volume in the series Imagine Math is intended to contribute to grasping how much that is interesting and new is happening in the relationships between mathematics imagination and culture The present book begins with the connections between mathematics numbers poetry and music with the latest opera by Italian composer Claudio Ambrosini Literature and narrative also play an important role here There is cinema too with the erotic mathematics films by Edward Frenkel and the new short Arithm tique by Munari and Rovazzani The section on applications of mathematics features a study of ants as well as the refined forms and surfaces generated by algorithms used in the performances by Adrien Mondot and Claire Bardainne Last but not least in honour of the hundredth anniversary of his birth a mathematical literary and theatrical homage to Alan Turing one of the outstanding figures of the twentieth century Puzzle and Proof Samuel Dittmer,Hiram Golze,Grant Molnar,Caleb Stanford,2024-08-13 Puzzle and Proof A Decade of Problems from the Utah Math Olympiad is a compilation of the problems and solutions for the first 10 years of the Utah Math Olympiad The problems are challenging but should be understandable at a high school level Besides putting all problems in one place 70 in total which have not previously appeared in print the book provides additional inspiration for many of the problems and will contain the first published solutions for 10 problems that were originally published on the contest flyer The book will be a fantastic resource for anyone who enjoys mathematical and or logic puzzles or is interested in studying for mathematics competitions Features 70 carefully designed high quality high school level math proof problems with full solutions Detailed pictures and diagrams throughout to aid understanding Suitable for anyone with high school level mathematics skills with an interest in furthering their understanding or just enjoying the puzzles Solutions in the back of the book sorting the problems by difficulty and topic Notes on Counting: An Introduction to Enumerative Combinatorics Peter J. Cameron,2017-06-21 Enumerative combinatorics in its algebraic and analytic forms is vital to many areas of mathematics from model theory to statistical mechanics This book which stems from many years experience of teaching invites students into the subject and prepares them for more advanced texts It is suitable as a class text or for individual study The author provides proofs for many of the theorems to show the range of techniques available and uses examples to link enumerative combinatorics to other areas of study The main section of the book introduces the key tools of the subject generating functions and recurrence relations which are then used to study the most important combinatorial objects namely subsets partitions and permutations of a set Later chapters deal with more specialised topics including permanents SDRs group actions and the Redfield Plya theory of cycle indices Mbius inversion the Tutte polynomial and species *Optimization, Discrete Mathematics and Applications to Data Sciences* Ashkan Nikeghbali,Panos M. Pardalos,Michael Th. Rassias,2025-01-08 This book delves into

the dynamic intersection of optimization and discrete mathematics offering a comprehensive exploration of their applications in data sciences Through a collection of high quality papers readers will gain insights into cutting edge research and methodologies that address complex problems across a wide array of topics The chapters cover an impressive range of subjects including advances in the study of polynomials combinatorial identities and global optimization algorithms Readers will encounter innovative approaches to predictive models for non performing loans rainbow greedy matching algorithms and the cost of detection in interaction testing The book also examines critical issues such as demand aggregation mid term energy planning and minimum cost energy flow Contributions from expert authors provide a deep dive into multilevel low rank matrices the protection of medical image authenticity and the mathematical intricacies of the Braess paradox This volume invites readers to explore diverse perspectives and theoretical insights that are both practical and forward thinking This publication is an invaluable resource for graduate students and advanced researchers in the fields of optimization and discrete mathematics It is particularly beneficial for those interested in their applications within data sciences Academics across these disciplines will find the book s content relevant to their work while practitioners seeking to apply these concepts in industry will appreciate its practical case studies Whether you are a scholar or a professional this book offers a wealth of knowledge that bridges theory with real world applications     The Best Writing on Mathematics 2019 Mircea

Pitici,2019-11-05 The year s finest mathematical writing from around the world This annual anthology brings together the year s finest mathematics writing from around the world Featuring promising new voices alongside some of the foremost names in the field The Best Writing on Mathematics 2019 makes available to a wide audience many articles not easily found anywhere else and you don t need to be a mathematician to enjoy them These essays delve into the history philosophy teaching and everyday aspects of math offering surprising insights into its nature meaning and practice and taking readers behind the scenes of today s hottest mathematical debates In this volume Moon Duchin explains how geometric statistical methods can be used to combat gerrymandering Jeremy Avigad illustrates the growing use of computation in making and verifying mathematical hypotheses and Kokichi Sugihara describes how to construct geometrical objects with unusual visual properties In other essays Neil Sloane presents some recent additions to the vast database of integer sequences he has catalogued and Alessandro Di Bucchianico and his colleagues highlight how mathematical methods have been successfully applied to big data problems And there s much much more In addition to presenting the year s most memorable math writing this must have anthology includes an introduction by the editor and a bibliography of other notable writings on mathematics This is a must read for anyone interested in where math has taken us and where it is headed     *Sequential Experiments with Primes* Mihai Caragiu,2017-06-22 With a specific focus on the mathematical life in small undergraduate colleges this book presents a variety of elementary number theory insights involving sequences largely built from prime numbers and contingent number theoretic functions Chapters include new mathematical ideas and open problems some of which are

proved in the text Vector valued MGPF sequences extensions of Conway's Subprime Fibonacci sequences and linear complexity of bit streams derived from GPF sequences are among the topics covered in this book This book is perfect for the pure mathematics minded educator in a small undergraduate college as well as graduate students and advanced undergraduate students looking for a significant high impact learning experience in mathematics

### **Sectoral Structures**

**Theory** Anas Abou-Ismaïl, 2025-02-18 Sectoral Structures Theory is a novel interdisciplinary mathematical framework which studies the continuous arrangements of circular sectors into sectoral structures This work explores enumerative functions of structural sets their connections to Losanitsch's triangle and their links to arithmetic functions We establish the foundations of the theory within geometric combinatorics graph theory and number theory After that we use matrices and polynomials to describe and analyze sectoral structures We integrate concepts from algebraic topology and algebraic geometry to study mappings and operations on these structures The same concepts are expanded to define and study sectoral substructures and superstructures Concepts from circle packings are used to investigate the covers and compliments as well We utilize group theory to study various types of symmetries of sectoral sequences The book concludes with an analysis of string embeddings into sectoral structures

### **Automated Theory Formation in Pure Mathematics**

Simon Colton, 2012-12-06 In recent years Artificial Intelligence researchers have largely focused their efforts on solving specific problems with less emphasis on the big picture automating large scale tasks which require human level intelligence to undertake The subject of this book automated theory formation in mathematics is such a large scale task Automated theory formation requires the invention of new concepts the calculating of examples the making of conjectures and the proving of theorems This book representing four years of PhD work by Dr Simon Colton demonstrates how theory formation can be automated Building on over 20 years of research into constructing an automated mathematician carried out in Professor Alan Bundy's mathematical reasoning group in Edinburgh Dr Colton has implemented the HR system as a solution to the problem of forming theories by computer HR uses various pieces of mathematical software including automated theorem provers model generators and databases to build a theory from the bare minimum of information the axioms of a domain The main application of this work has been mathematical discovery and HR has had many successes In particular it has invented 20 new types of number of sufficient interest to be accepted into the Encyclopaedia of Integer Sequences a repository of over 60 000 sequences contributed by many human mathematicians

### **Aha! Solutions**

Martin J. Erickson, 2009-01-22 Every mathematician beginner amateur and professional alike thrills to find simple elegant solutions to seemingly difficult problems Such happy resolutions are called aha solutions a phrase popularized by mathematics and science writer Martin Gardner Aha solutions are surprising stunning and scintillating they reveal the beauty of mathematics This book is a collection of problems with aha solutions The problems are at the level of the college mathematics student but there should be something of interest for the high school student the teacher of mathematics the math fan and anyone else who loves mathematical challenges This

collection includes one hundred problems in the areas of arithmetic geometry algebra calculus probability number theory and combinatorics The problems start out easy and generally get more difficult as you progress through the book A few solutions require the use of a computer An important feature of the book is the bonus discussion of related mathematics that follows the solution of each problem This material is there to entertain and inform you or point you to new questions If you don't remember a mathematical definition or concept there is a Toolkit in the back of the book that will help

**Methods and Applications of Algorithmic Complexity** Hector Zenil, Fernando Soler Toscano, Nicolas Gauvrit, 2022-05-16 This book explores a different pragmatic approach to algorithmic complexity rooted or motivated by the theoretical foundations of algorithmic probability and explores the relaxation of necessary and sufficient conditions in the pursuit of numerical applicability with some of these approaches entailing greater risks than others in exchange for greater relevance and applicability Some established and also novel techniques in the field of applications of algorithmic Kolmogorov complexity currently coexist for the first time ranging from the dominant ones based upon popular statistical lossless compression algorithms such as LZW to newer approaches that advance complement and also pose their own limitations Evidence suggesting that these different methods complement each other for different regimes is presented and despite their many challenges some of these methods are better grounded in or motivated by the principles of algorithmic information The authors propose that the field can make greater contributions to science causation scientific discovery networks and cognition to mention a few among many fields instead of remaining either as a technical curiosity of mathematical interest only or as a statistical tool when collapsed into an application of popular lossless compression algorithms This book goes thus beyond popular statistical lossless compression and introduces a different methodological approach to dealing with algorithmic complexity For example graph theory and network science are classic subjects in mathematics widely investigated in the twentieth century transforming research in many fields of science from economy to medicine However it has become increasingly clear that the challenge of analyzing these networks cannot be addressed by tools relying solely on statistical methods Therefore model driven approaches are needed Recent advances in network science suggest that algorithmic information theory could play an increasingly important role in breaking those limits imposed by traditional statistical analysis entropy or statistical compression in modeling evolving complex networks or interacting networks Further progress on this front calls for new techniques for an improved mechanistic understanding of complex systems thereby calling out for increased interaction between systems science network theory and algorithmic information theory to which this book contributes

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