

The Diophantine Frobenius Problem



J. L. Ramírez Alfonsín

Diophantine Frobenius Problem

Kohei Arai



Diophantine Frobenius Problem:

The Diophantine Frobenius Problem Jorge L. Ramírez Alfonsín, 2005-12-01 During the early part of the last century Ferdinand Georg Frobenius 1849 1917 raised the following problem known as the Frobenius Problem FP given relatively prime positive integers a_1 and find the largest natural number called the Frobenius number and denoted by $g(a_1)$ that is not representable as a nonnegative integer combination of a_1 and a_2 . At first glance FP may look deceptively specialized. Nevertheless it crops up again and again in the most unexpected places and has been extremely useful in investigating many different problems. A number of methods from several areas of mathematics have been used in the hope of finding a formula giving the Frobenius number and algorithms to calculate it. The main intention of this book is to highlight such methods, ideas, viewpoints and applications to a broader audience. *The Diophantine Frobenius Problem* Jorge L. Ramírez Alfonsín, 2005

On a Linear Diophantine Problem of Frobenius Stefan Matthias Ritter, 1998 **Developments in Language Theory** Masami Ito, 2008-09-04 This book constitutes the refereed proceedings of the 12th International Conference on Developments in Language Theory DLT 2008 held in Kyoto Japan September 2008. The 36 revised full papers presented together with 6 invited papers were carefully reviewed and selected from 102 submissions. All important issues in language theory are addressed including grammars, acceptors and transducers for words, trees and graphs, algebraic theories of automata, algorithmic, combinatorial and algebraic properties of words and languages, variable length codes, symbolic dynamics, cellular automata, polyominoes and multidimensional patterns, decidability questions, image manipulation and compression, efficient text algorithms, relationships to cryptography, concurrency, complexity theory and logic, bio-inspired computing, quantum computing. Extending the Linear Diophantine Problem of Frobenius Curtis Kifer, 2010 **Mathematical Methods for Engineering Applications** Fatih Yilmaz, Araceli Queiruga-Dios, María Jesús Santos Sánchez, Deolinda Rasteiro, Víctor Gayoso Martínez, Jesús Martín Vaquero, 2022-04-15 This proceedings volume gathers selected peer-reviewed papers presented at the 2nd International Conference on Mathematics and its Applications in Science and Engineering ICMASE 2021 which was virtually held on July 1-2, 2021 by the University of Salamanca Spain. Works included in this book cover applications of mathematics both in engineering research and in real-world problems touching topics such as difference equations, number theory, optimization and more. The list of applications includes the modeling of mechanical structures, the shape of machines and the growth of a population expanding to fields like information security and cryptography. Advances in teaching and learning mathematics in the context of engineering courses are also covered. This volume can be of special interest to researchers in applied mathematics and engineering fields as well as practitioners seeking studies that address real-life problems in engineering. Computing and Combinatorics Lusheng Wang, 2005-09-07 The papers in this volume were presented at the Eleventh Annual International Computing and Combinatorics Conference COCOON 2005 held August 16-19, 2005 in Kunming China. **Algorithms and Discrete Applied Mathematics** Subrahmanyam Kalyanasundaram, Anil

Maheshwari,2024-01-13 This book constitutes the refereed proceedings of the 10th International Conference on Algorithms and Discrete Applied Mathematics CALDAM 2024 held in Bhilai India during February 15 17 2024 The 22 full papers included in this book were carefully reviewed and selected from 57 submissions They were organized in topical sections as follows Algorithms and Complexity Computational Geometry Discrete Applied Mathematics Graph Algorithms Graph Theory

Resources for Teaching Discrete Mathematics Brian Hopkins,2009 Hopkins collects the work of 35 instructors who share their innovations and insights about teaching discrete mathematics at the high school and college level The book s 9 classroom tested projects including building a geodesic dome come with student handouts solutions and notes for the instructor The 11 history modules presented draw on original sources such as Pascal s Treatise on the Arithmetical Triangle allowing students to explore topics in their original contexts Three articles address extensions of standard discrete mathematics content Two other articles explore pedagogy specifically related to discrete mathematics courses adapting a group discovery method to larger classes and using logic in encouraging students to construct proofs **A Panorama of**

Singularities Francisco-Jesús Castro-Jiménez,David Bradley Massey,Bernard Teissier,Meral Tosun,2020-01-13 This volume contains the proceedings of the conference A Panorama on Singular Varieties celebrating the 70th birthday of L D ng Tr ng held from February 7 10 2017 at the University of Seville IMUS Seville Spain The articles cover a wide range of topics in the study of singularities and should be of great value to graduate students and research faculty who have a basic background in the theory of singularities **On a Linear Diophantine Problem of Frobenius for Three Variables** Bharti Temkin,1983

Numerical Semigroups and Applications Abdallah Assi,Pedro A. García-Sánchez,2016-08-25 This work presents applications of numerical semigroups in Algebraic Geometry Number Theory and Coding Theory Background on numerical semigroups is presented in the first two chapters which introduce basic notation and fundamental concepts and irreducible numerical semigroups The focus is in particular on free semigroups which are irreducible semigroups associated with planar curves are of this kind The authors also introduce semigroups associated with irreducible meromorphic series and show how these are used in order to present the properties of planar curves Invariants of non unique factorizations for numerical semigroups are also studied These invariants are computationally accessible in this setting and thus this monograph can be used as an introduction to Factorization Theory Since factorizations and divisibility are strongly connected the authors show some applications to AG Codes in the final section The book will be of value for undergraduate students especially those at a higher level and also for researchers wishing to focus on the state of art in numerical semigroups research **Extending**

the Linear Diophantine Problem Curtis Kifer,2011-09 Given integer valued relatively prime coins $a_1 a_2 \dots a_k$ the Frobenius number is the largest integer n such that the linear diophantine equation $a_1 m_1 + a_2 m_2 + \dots + a_k m_k = n$ has no solution in non negative integers $m_1 m_2 \dots m_k$ We denote by $g(a_1, a_2, \dots, a_k)$ the largest integer value not attainable by this coin system That is to say that any integer x greater than the Frobenius number $g(a_1, a_2, \dots, a_k)$ has a representation $x = a_1 x_1 + a_2 x_2 + \dots + a_k x_k$ by $a_1 a_2 \dots a_k$ for some non

negative integers x_1, x_2, \dots, x_k . We say x is representable by a_1, a_2, \dots, a_k . While it is obvious that there are representable positive integers and non representable positive integers must there be a largest non representable integer? Maybe there are indefinitely large non representable integers for a_1, a_2, \dots, a_k with $\gcd(a_1, a_2, \dots, a_k) = 1$. This notion of whether or not the Frobenius number is well defined will be the first bit of mathematics we look at in this paper.

Proposition 1.1 The Frobenius number $g(a_1, \dots, a_k)$ is well defined.

Proof. Given a_1, a_2, \dots, a_k with $\gcd(a_1, a_2, \dots, a_k) = 1$ the extended Euclidean algorithm gives that there exist $m_1, m_2, \dots, m_k \in \mathbb{Z}$ such that

The Diophantine Problem of Frobenius H. Krawczyk, A. Paz, 1987

Unsolved Problems in Number Theory R.K. Guy, 1981-11-30 Second edition sold 2241 copies in N A and 1600 ROW New edition contains 50 percent new material

Intelligent Computing Kohei Arai, 2021-07-12 This book is a comprehensive collection of chapters focusing on the core areas of computing and their further applications in the real world. Each chapter is a paper presented at the Computing Conference 2021 held on 15-16 July 2021. Computing 2021 attracted a total of 638 submissions which underwent a double blind peer review process. Of those 638 submissions 235 submissions have been selected to be included in this book. The goal of this conference is to give a platform to researchers with fundamental contributions and to be a premier venue for academic and industry practitioners to share new ideas and development experiences. We hope that readers find this volume interesting and valuable as it provides the state of the art intelligent methods and techniques for solving real world problems. We also expect that the conference and its publications is a trigger for further related research and technology improvements in this important subject.

Unsolved Problems in Number Theory Richard Guy, 1994-08-26 Second edition sold 2241 copies in N A and 1600 ROW New edition contains 50 percent new material

Computing and Combinatorics, 2005 *Acta Arithmetica*, 2019 *Journal für die reine und angewandte Mathematik*, 1979

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