

Number Theory

Factorial Factors: The factorials: $n! = 1 \cdot 2 \cdot \dots \cdot n = \prod_{k=1}^n k$, integer $n \geq 0$

We can find out factorial of an integer n using following recursive formula:

$$0! = 1$$

$$n! = n(n-1)! \quad , \quad \text{for } n > 0$$

Here are the first few values of the factorial function.

n	0	1	2	3	4	5	6	7	8	9	10
$n!$	0	1	2	6	24	120	720	5040	40320	362880	3628800

Because of it's exponential nature it's very difficult to find a closed form of factorial. To approximate $n!$ more accurately for large n we can use Stirling's formula:

$$n! \approx \sqrt{2\pi n} \left(\frac{n}{e}\right)^n$$

We would like to determine, for any given prime p , the largest power of p that divides $n!$; that is we want the exponent of p in $n!$'s unique factorization. We denote this number by $e_p(n!)$, and we start our investigations with the small case $p = 2$ and $n = 10$.

	1	2	3	4	5	6	7	8	9	10	Powers of 2
Divisible by 2		X		X		X		X		X	$5 = \lfloor \frac{10}{2} \rfloor$
Divisible by 4				X				X			$2 = \lfloor \frac{10}{4} \rfloor$
Divisible by 8								X			$1 = \lfloor \frac{10}{8} \rfloor$
Powers of 2	0	1	0	2	0	1	0	3	0	1	8

For general n this method gives, $e_2(n!) = \left\lfloor \frac{n}{2} \right\rfloor + \left\lfloor \frac{n}{4} \right\rfloor + \left\lfloor \frac{n}{8} \right\rfloor + \dots = \sum_{i=1}^{\infty} \left\lfloor \frac{n}{2^i} \right\rfloor$

This sum is actually finite, since the summand is zero when $2^i > n$. Therefore it has only $\lfloor \lg n \rfloor$ nonzero terms, and it's computationally quite easy. For instance, if $n = 100$,

$$e_2(100!) = \left\lfloor \frac{100}{2} \right\rfloor + \left\lfloor \frac{100}{4} \right\rfloor + \left\lfloor \frac{100}{8} \right\rfloor + \left\lfloor \frac{100}{16} \right\rfloor + \left\lfloor \frac{100}{32} \right\rfloor + \left\lfloor \frac{100}{64} \right\rfloor = 50 + 25 + 12 + 6 + 3 + 1 = 97$$

Let's look at the binary representation of all numbers to find out what's going on.

$$\begin{array}{l}
 100 = (1100100)_2 = 100 \\
 \left\lfloor \frac{100}{2} \right\rfloor = (110010)_2 = 50 \\
 \left\lfloor \frac{100}{4} \right\rfloor = (11001)_2 = 25 \\
 \left\lfloor \frac{100}{8} \right\rfloor = (1100)_2 = 12 \\
 \left\lfloor \frac{100}{16} \right\rfloor = (110)_2 = 6 \\
 \left\lfloor \frac{100}{32} \right\rfloor = (11)_2 = 3 \\
 \left\lfloor \frac{100}{64} \right\rfloor = (1)_2 = 1
 \end{array}$$

Second Course In Number Theory

Anthony Vazzana, David Garth



Second Course In Number Theory:

A Second Course in Number Theory Harvey Cohn, 1962 *A Course in Number Theory* H. E. Rose, 1995 The second edition of this undergraduate textbook is now available in paperback Covering up to date as well as established material it is the only textbook which deals with all the main areas of number theory taught in the third year of a mathematics course Each chapter ends with a collection of problems and hints and sketch solutions are provided at the end of the book together with useful tables

Not Always Buried Deep Paul Pollack, 2009 Number theory is one of the few areas of mathematics where problems of substantial interest can be fully described to someone with minimal mathematical background Solving such problems sometimes requires difficult and deep methods But this is not a universal phenomenon many engaging problems can be successfully attacked with little more than one's mathematical bare hands In this case one says that the problem can be solved in an elementary way Such elementary methods and the problems to which they apply are the subject of this book *Not Always Buried Deep* is designed to be read and enjoyed

A Course in Analytic Number Theory Marius Overholt, 2014-12-30 This book is an introduction to analytic number theory suitable for beginning graduate students It covers everything one expects in a first course in this field such as growth of arithmetic functions existence of primes in arithmetic progressions and the Prime Number Theorem But it also covers more challenging topics that might be used in a second course such as the Siegel Walfisz theorem functional equations of L functions and the explicit formula of von Mangoldt For students with an interest in Diophantine analysis there is a chapter on the Circle Method and Waring's Problem Those with an interest in algebraic number theory may find the chapter on the analytic theory of number fields of interest with proofs of the Dirichlet unit theorem the analytic class number formula the functional equation of the Dedekind zeta function and the Prime Ideal Theorem The exposition is both clear and precise reflecting careful attention to the needs of the reader The text includes extensive historical notes which occur at the ends of the chapters The exercises range from introductory problems and standard problems in analytic number theory to interesting original problems that will challenge the reader The author has made an effort to provide clear explanations for the techniques of analysis used No background in analysis beyond rigorous calculus and a first course in complex function theory is assumed

Topics in Number Theory, Volumes I and II William J. LeVeque, 2012-06-22 Classic 2 part work now available in a single volume Contents range from chapters on binary quadratic forms to the Thue Siegel Roth Theorem and the Prime Number Theorem Includes problems and solutions 1956 edition

Not Always Buried Deep Paul Pollack, **Fundamental Number Theory with Applications** Richard A. Mollin, 2008-02-21 An update of the most accessible introductory number theory text available *Fundamental Number Theory with Applications* Second Edition presents a mathematically rigorous yet easy to follow treatment of the fundamentals and applications of the subject The substantial amount of reorganizing makes this edition clearer and more elementary in its

Quadratic Number Theory James Larry Lehman, 2019 *Quadratic Number Theory* is an introduction to

algebraic number theory for readers with a moderate knowledge of elementary number theory and some familiarity with the terminology of abstract algebra. By restricting attention to questions about squares the author achieves the dual goals of making the presentation accessible to undergraduates and reflecting the historical roots of the subject. The representation of integers by quadratic forms is emphasized throughout the text. Lehman introduces an innovative notation for ideals of a quadratic domain that greatly facilitates computation and he uses this to particular effect. The text has an unusual focus on actual computation. This focus and this notation serve the author's historical purpose as well: ideals can be seen as number-like objects as Kummer and Dedekind conceived of them. The notation can be adapted to quadratic forms and provides insight into the connection between quadratic forms and ideals. The computation of class groups and continued fraction representations are featured; the author's notation makes these computations particularly illuminating. Quadratic Number Theory with its exceptionally clear prose, hundreds of exercises, and historical motivation would make an excellent textbook for a second undergraduate course in number theory. The clarity of the exposition would also make it a terrific choice for independent reading. It will be exceptionally useful as a fruitful launching pad for undergraduate research projects in algebraic number theory.

Site web de l'éditeur: *Introduction to Number Theory* Anthony Vazzana, David Garth, 2015-11-18

Introduction to Number Theory is a classroom-tested student-friendly text that covers a diverse array of number theory topics from the ancient Euclidean algorithm for finding the greatest common divisor of two integers to recent developments such as cryptography, the theory of elliptic curves, and the negative solution of Hilbert's tenth problem.

Number Theory with Computations Peter Shiu, 2024-09-02 This introductory text is designed for undergraduate courses in number theory covering both elementary number theory and analytic number theory. The book emphasises computational aspects including algorithms and their implementation in Python. The book is divided into two parts. The first part on elementary number theory deals with concepts such as induction, divisibility, congruences, primitive roots, cryptography, and continued fractions. The second part is devoted to analytic number theory and includes chapters on Dirichlet's theorem on primes in arithmetic progressions, the prime number theorem, smooth numbers, and the famous circle method of Hardy and Littlewood. The book contains many topics not often found in introductory textbooks such as Aubry's theorem, the Tonelli-Shanks algorithm, factorisation methods, continued fraction representations of e and the irrationality of $\sqrt{3}$. Each chapter concludes with a summary and notes as well as numerous exercises. Assuming only basic calculus for the first part of the book, the second part assumes some knowledge of complex analysis. Familiarity with basic coding syntax will be helpful for the computational exercises.

Number Theory Helmut Koch, 2000 Algebraic number theory is one of the most refined creations in mathematics. It has been developed by some of the leading mathematicians of this and previous centuries. The primary goal of this book is to present the essential elements of algebraic number theory including the theory of normal extensions up through a glimpse of class field theory. Following the example set for us by Kronecker, Weber, Hilbert, and Artin, algebraic

functions are handled here on an equal footing with algebraic numbers This is done on the one hand to demonstrate the analogy between number fields and function fields which is especially clear in the case where the ground field is a finite field On the other hand in this way one obtains an introduction to the theory of higher congruences as an important element of arithmetic geometry Early chapters discuss topics in elementary number theory such as Minkowski's geometry of numbers public key cryptography and a short proof of the Prime Number Theorem following Newman and Zagier Next some of the tools of algebraic number theory are introduced such as ideals discriminants and valuations These results are then applied to obtain results about function fields including a proof of the Riemann-Roch Theorem and as an application of cyclotomic fields a proof of the first case of Fermat's Last Theorem There are a detailed exposition of the theory of Hecke L-series following Tate and explicit applications to number theory such as the Generalized Riemann Hypothesis Chapter 9 brings together the earlier material through the study of quadratic number fields Finally Chapter 10 gives an introduction to class field theory The book attempts as much as possible to give simple proofs It can be used by a beginner in algebraic number theory who wishes to see some of the true power and depth of the subject The book is suitable for two one-semester courses with the first four chapters serving to develop the basic material Chapters 6 through 9 could be used on their own as a second semester course

Quadratic Number Theory J. L. Lehman, 2019-02-13 Quadratic Number Theory is an introduction to algebraic number theory for readers with a moderate knowledge of elementary number theory and some familiarity with the terminology of abstract algebra By restricting attention to questions about squares the author achieves the dual goals of making the presentation accessible to undergraduates and reflecting the historical roots of the subject The representation of integers by quadratic forms is emphasized throughout the text Lehman introduces an innovative notation for ideals of a quadratic domain that greatly facilitates computation and he uses this to particular effect The text has an unusual focus on actual computation This focus and this notation serve the author's historical purpose as well ideals can be seen as number-like objects as Kummer and Dedekind conceived of them The notation can be adapted to quadratic forms and provides insight into the connection between quadratic forms and ideals The computation of class groups and continued fraction representations are featured the author's notation makes these computations particularly illuminating Quadratic Number Theory with its exceptionally clear prose hundreds of exercises and historical motivation would make an excellent textbook for a second undergraduate course in number theory The clarity of the exposition would also make it a terrific choice for independent reading It will be exceptionally useful as a fruitful launching pad for undergraduate research projects in algebraic number theory

Number Theory and Cryptography J. H. Loxton, 1990-04-19 Papers presented by prominent contributors at a workshop on Number Theory and Cryptography and the annual meeting of the Australian Mathematical Society

Introduction To Number Theory Richard Michael Hill, 2017-12-04 Probably its most significant distinguishing feature is that this book is more algebraically oriented than most undergraduate number theory texts MAA

ReviewsIntroduction to Number Theory is dedicated to concrete questions about integers to place an emphasis on problem solving by students When undertaking a first course in number theory students enjoy actively engaging with the properties and relationships of numbers The book begins with introductory material including uniqueness of factorization of integers and polynomials Subsequent topics explore quadratic reciprocity Hensel s Lemma p adic powers series such as $\exp px$ and $\log 1 px$ the Euclidean property of some quadratic rings representation of integers as norms from quadratic rings and Pell s equation via continued fractions Throughout the five chapters and more than 100 exercises and solutions readers gain the advantage of a number theory book that focuses on doing calculations This textbook is a valuable resource for undergraduates or those with a background in university level mathematics

Elementary Number Theory Charles Vanden Eynden,2006-02-15 This practical and versatile text evolved from the author s years of teaching experience and the input of his students Vanden Eynden strives to alleviate the anxiety that many students experience when approaching any proof oriented area of mathematics including number theory His informal yet straightforward writing style explains the ideas behind the process of proof construction showing that mathematicians develop theorems and proofs from trial and error and evolutionary improvement not spontaneous insight Furthermore the book includes more computational problems than most other number theory texts to build students familiarity and confidence with the theory behind the material The author has devised the content organization and writing style so that information is accessible students can gain self confidence with respect to mathematics and the book can be used in a wide range of courses from those that emphasize history and type A problems to those that are proof oriented

Computational Number Theory Abhijit Das,2013-03-18 Developed from the author s popular graduate level course Computational Number Theory presents a complete treatment of number theoretic algorithms Avoiding advanced algebra this self contained text is designed for advanced undergraduate and beginning graduate students in engineering It is also suitable for researchers new to the field and practitioners of cryptography in industry Requiring no prior experience with number theory or sophisticated algebraic tools the book covers many computational aspects of number theory and highlights important and interesting engineering applications It first builds the foundation of computational number theory by covering the arithmetic of integers and polynomials at a very basic level It then discusses elliptic curves primality testing algorithms for integer factorization computing discrete logarithms and methods for sparse linear systems The text also shows how number theoretic tools are used in cryptography and cryptanalysis A dedicated chapter on the application of number theory in public key cryptography incorporates recent developments in pairing based cryptography With an emphasis on implementation issues the book uses the freely available number theory calculator GP PARI to demonstrate complex arithmetic computations The text includes numerous examples and exercises throughout and omits lengthy proofs making the material accessible to students and practitioners

Elements of the Theory of Numbers Joseph B. Dence,Thomas P. Dence,1999-01-20 Elements of the Theory of Numbers teaches

students how to develop implement and test numerical methods for standard mathematical problems The authors have created a two pronged pedagogical approach that integrates analysis and algebra with classical number theory Making greater use of the language and concepts in algebra and analysis than is traditionally encountered in introductory courses this pedagogical approach helps to instill in the minds of the students the idea of the unity of mathematics Elements of the Theory of Numbers is a superb summary of classical material as well as allowing the reader to take a look at the exciting role of analysis and algebra in number theory In depth coverage of classical number theory Thorough discussion of the theory of groups and rings Includes application of Taylor polynomials Contains more advanced material than other texts Illustrates the results of a theorem with an example Excellent presentation of the standard computational exercises Nearly 1000 problems many are proof oriented several others require the writing of computer programs to complete the computations Clear and well motivated presentation Provides historical references noting distinguished number theory luminaries such as Euclid de Fermat Hilbert Brun and Lehmer to name a few Annotated bibliographies appear at the end of all of the chapters

Modular Functions and Dirichlet Series in Number Theory Tom M. Apostol, 2012-12-06 This is the second volume of a 2 volume textbook which evolved from a course Mathematics 160 offered at the California Institute of Technology during the last 25 years The second volume presupposes a background in number theory comparable to that provided in the first volume together with a knowledge of the basic concepts of complex analysis Most of the present volume is devoted to elliptic functions and modular functions with some of their number theoretic applications Among the major topics treated are Rademacher's convergent series for the partition function Lehner's congruences for the Fourier coefficients of the modular function $j(\tau)$ and Hecke's theory of entire forms with multiplicative Fourier coefficients The last chapter gives an account of Bohr's theory of equivalence of general Dirichlet series Both volumes of this work emphasize classical aspects of a subject which in recent years has undergone a great deal of modern development It is hoped that these volumes will help the nonspecialist become acquainted with an important and fascinating part of mathematics and at the same time will provide some of the background that belongs to the repertory of every specialist in the field This volume like the first is dedicated to the students who have taken this course and have gone on to make notable contributions to number theory and other parts of mathematics T M A January 1976 The first volume is in the Springer Verlag series Undergraduate Texts in Mathematics under the title Introduction to Analytic Number Theory Annual Catalogue of the University of Kansas University of Kansas, 1921 **Reviews in Number Theory 1973-83** Richard K. Guy, 1984

Second Course In Number Theory Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Second Course In Number Theory**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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