The Probabilistic Method

Goal: show that there exists an object of value at least v.

Proof strategy:

- Define distribution D over objects.
- Define a RV X: X(object) = value of object.
- Show E[X], v. Conclude it must be possible to have X, v.

The Probabilistic Method

Joel H. Spencer

The Probabilistic Method:

The Probabilistic Method Noga Alon, Joel H. Spencer, 2004-03-22 The leading reference on probabilistic methods in combinatorics now expanded and updated When it was first published in 1991 The Probabilistic Method became instantly the standard reference on one of the most powerful and widely used tools in combinatorics Still without competition nearly a decade later this new edition brings you up to speed on recent developments while adding useful exercises and over 30% new material It continues to emphasize the basic elements of the methodology discussing in a remarkably clear and informal style both algorithmic and classical methods as well as modern applications The Probabilistic Method Second Edition begins with basic techniques that use expectation and variance as well as the more recent martingales and correlation inequalities then explores areas where probabilistic techniques proved successful including discrepancy and random graphs as well as cutting edge topics in theoretical computer science A series of proofs or probabilistic lenses are interspersed throughout the book offering added insight into the application of the probabilistic approach New and revised coverage includes Several improved as well as new results A continuous approach to discrete probabilistic problems Talagrand's Inequality and other novel concentration results A discussion of the connection between discrepancy and VC dimension Several combinatorial applications of the entropy function and its properties A new section on the life and work of Paul Erd's the developer of the The Probabilistic Method Noga Alon, Joel H. Spencer, 2011-09-20 Praise for the Second Edition probabilistic method Serious researchers in combinatorics or algorithm design will wish to read the book in its entirety the book may also be enjoyed on a lighter level since the different chapters are largely independent and so it is possible to pick out gems in one s own area Formal Aspects of Computing This Third Edition of The Probabilistic Method reflects the most recent developments in the field while maintaining the standard of excellence that established this book as the leading reference on probabilistic methods in combinatorics Maintaining its clear writing style illustrative examples and practical exercises this new edition emphasizes methodology enabling readers to use probabilistic techniques for solving problems in such fields as theoretical computer science mathematics and statistical physics The book begins with a description of tools applied in probabilistic arguments including basic techniques that use expectation and variance as well as the more recent applications of martingales and correlation inequalities Next the authors examine where probabilistic techniques have been applied successfully exploring such topics as discrepancy and random graphs circuit complexity computational geometry and derandomization of randomized algorithms Sections labeled The Probabilistic Lens offer additional insights into the application of the probabilistic approach and the appendix has been updated to include methodologies for finding lower bounds for Large Deviations The Third Edition also features A new chapter on graph property testing which is a current topic that incorporates combinatorial probabilistic and algorithmic techniques An elementary approach using probabilistic techniques to the powerful Szemer di Regularity Lemma and its applications New sections devoted to percolation and liar

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the notes from Spencer's 1986 series of ten lectures this new edition contains an additional lecture The Janson Inequalities These inequalities allow accurate approximation of extremely small probabilities A new algorithmic approach to the Lovasz Local Lemma attributed to Jozsef Beck has been added to Lecture 8 as well Ten Lectures on the Probabilistic Method Joel Graph Colouring and the Probabilistic Method Michael Molloy, Bruce Reed, 2013-06-29 Over the past decade many major advances have been made in the field of graph colouring via the probabilistic method This monograph provides an accessible and unified treatment of these results using tools such as the Lovasz Local Lemma and Talagrand s concentration inequality The topics covered include Kahn's proofs that the Goldberg Seymour and List Colouring Conjectures hold asymptotically a proof that for some absolute constant C every graph of maximum degree Delta has a Delta C total colouring Johansson's proof that a triangle free graph has a O Delta over log Delta colouring algorithmic variants of the Local Lemma which permit the efficient construction of many optimal and near optimal colourings This begins with a gentle introduction to the probabilistic method and will be useful to researchers and graduate students in graph theory discrete mathematics theoretical computer science and probability The Probabilistic Method in Combinatorics Researcher in combinatorics He,2021 The probabilistic method is the art of introducing probability to prove results that often do not involve randomness to begin with In this thesis we present four applications of this powerful technique which has become one of the cornerstones of modern combinatorics First we prove a new lower bound for online Ramsey numbers giving for the first time an exponential separation between the lower bounds for classical and online Ramsey numbers Informally this means that it is quite difficult to adaptively find a monochromatic clique in an edge coloring of a large complete graph Next we determine the growth rate of a certain off diagonal hypergraph Ramsey number answering a question of Erd's and Hajnal from 1972 This is the first nontrivial hypergraph Ramsey number whose exponential order has been determined The proof introduces a new random model for hypergraphs and relies heavily on the entropy method Third we apply the entropy method to extremal graph theory proving Tomescu's graph coloring conjecture from 1971 This determines the maximum number of proper k colorings of any graph with chromatic number k and n vertices In the proof we use an entropy inequality related to sequential importance sampling an estimation technique from statistics Finally we present a result in probabilistic combinatorics outside graph theory An n permutation is called k universal if it contains every k permutation as a pattern and it is known that the shortest k universal permutation has length O k 2 It was suggested by Alon that actually almost all n permutations are k universal for some n O k 2 and he proved that a random permutation of length O k 2 logk is k universal with high probability Using a structure versus randomness approach we improve this bound to O k 2 loglogk almost closing the gap to the conjecture The Probabilistic Method and Random Graphs Brian Ketelboeter, 2012 Probabilistic Methods for Algorithmic Discrete Mathematics Michel Habib, 1998-08-19 The book gives an accessible account of modern pro babilistic methods for analyzing combinatorial structures and algorithms Each topic is approached in a didactic manner but

the most recent developments are linked to the basic ma terial Extensive lists of references and a detailed index will make this a useful guide for graduate students and researchers Special features included a simple treatment of Talagrand inequalities and their applications an overview and many carefully worked out examples of the probabilistic analysis of combinatorial algorithms a discussion of the exact simulation algorithm in the context of Markov Chain Monte Carlo Methods a general method for finding asymptotically optimal or near optimal graph colouring showing how the probabilistic method may be fine tuned to explit the structure of the underlying graph a succinct treatment of randomized algorithms and derandomization techniques Graph Colouring and the Probabilistic Method Michael Molloy, Bruce Reed, 2002 Over the past decade many major advances have been made in the field of graph colouring via the probabilistic method This monograph provides an accessible and unified treatment of these results using tools such as the Lovasz Local Lemma and Talagrand's concentration inequality The topics covered include Kahn's proofs that the Goldberg Seymour and List Colouring Conjectures hold asymptotically a proof that for some absolute constant C every graph of maximum degree Delta has a Delta C total colouring Johansson's proof that a triangle free graph has a O Delta over log Delta colouring algorithmic variants of the Local Lemma which permit the efficient construction of many optimal and near optimal colourings This begins with a gentle introduction to the probabilistic method and will be useful to researchers and graduate students in graph theory discrete mathematics theoretical computer science and probability Probabilistic Method, The. Wiley-Interscience Series in Discrete Mathematics and Optimization Joel Spencer, 2008 This Third Edition of The Probabilistic Method reflects the most recent developments in the field while maintaining the standard of excellence that established this book as the leading reference on probabilistic methods in combinatorics Maintaining its clear writing style illustrative examples and practical exercises this new edition emphasizes methodology enabling readers to use probabilistic techniques for solving problems in such fields as theoretical computer science mathematics and statistical physics This book begins with a description of tools applied in probabilistic arguments including basic techniques that use expectation and variance as well as the more recent applications of martingales and correlation inequalities Next the authors examine where probabilistic techniques have been applied successfully exploring such topics as discrepancy and random graphs circuit complexity computational geometry and derandomization of randomized algorithms Sections labeled The Probabilistic Lens offer additional insights into the application of the probabilistic approach and the appendix has been updated to include methodologies for finding lower bounds for Large Deviations The Third Edition also features a new chapter on graph property testing which is a current topic that incorporates combinatorial probabilistic and algorithmic techniques an elementary approach using probabilistic techniques to the powerful Szemeredi Regularity Lemma and its applications new sections devoted to percolation and liar games and a new chapter that provides a modern treatment of the Erdos Renyi phase transition in the Random Graph Process Written by two leading authorities in the field The Probabilistic Method Third Edition is an ideal reference for researchers in combinatorics and algorithm design who would like to better understand the use of probabilistic methods The book s numerous exercises and examples also make it an excellent textbook for graduate level courses in mathematics and computer science The Probabilistic Method and the Regularity Lemma, 2004 Probabilistic Method and Tournaments Stacie L. Smith,1998 Some Applications of the Probabilistic Method to Design Theory David A. Grable, 1992 The Probabilistic Method Jiří Matoušek, Jan Vondrák, 2001 Applications of the **Probabilistic and Combinatorial Techniques:** Probabilistic Method to Random Graphs Vishal Sanwalani, 2005 Advanced Problem Solving Carson Graves, 2021-11-16 Probabilistic technique is a nonconstructive method used to prove the existence of a specified type of mathematical object It works by showing that if one randomly selects objects from a specified class the probability that the result is of the given kind is strictly greater than zero The probabilistic method is applied in various areas of mathematics such as number theory linear algebra and real analysis as well as computer science and information theory It is mainly used in combinatorics which deals primarily with counting both as a means and an end in obtaining results It also deals with some properties of finite structures It is used in various areas like logic statistical physics evolutionary biology computer science etc Different approaches evaluations methodologies and advanced studies on probabilistic and combinatorial techniques have been included in this book It traces the progress of this field and highlights some of its key concepts and applications This book aims to equip students and experts with the advanced topics and The Probabilistic Method for Upper Bounds in Domination Theory Anush Poghosyan, 2010 upcoming models in this area

Discrete Probability Models and Methods Pierre Brémaud,2017-01-31 The emphasis in this book is placed on general models Markov chains random fields random graphs universal methods the probabilistic method the coupling method the Stein Chen method martingale methods the method of types and versatile tools Chernoff's bound Hoeffding's inequality Holley's inequality whose domain of application extends far beyond the present text Although the examples treated in the book relate to the possible applications in the communication and computing sciences in operations research and in physics this book is in the first instance concerned with theory The level of the book is that of a beginning graduate course It is self contained the prerequisites consisting merely of basic calculus series and basic linear algebra matrices The reader is not assumed to be trained in probability since the first chapters give in considerable detail the background necessary to understand the rest of the book

Probabilistic Methods in combinatorics Paul Erdös, Joel Spencer, 1974

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