Permutation with Repetition

- Number of n items of type a_1, a_2, ..., a_k with $n = \sum_{i=0}^{k} a_i$

  $\sum a_i = n$

- $\binom{n}{a_1}\binom{n-a_1}{a_2}\binom{n-a_1-a_2}{a_3} \cdots \binom{a_k}{a_k} = \dfrac{n!}{a_1! * a_2! * \cdots * a_k!}$

- Ex: How many 5 letter strings can be made from the letters in "level"?

  - Ans: There are 2 l's, 2e's, and 1 v and 5 letters total. $\dfrac{5!}{2! * 2! * 1!} = 30$.

Discrete Mathematics With Combinatorics

D. Bresson,P. Camion,J.F. Maurras,F. Sterboul,C. Berge

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partitions and generating functions It then focuses on the structure of permutations graph enumerat **Combinatorics of Permutations** Miklos Bona,2004-06-25 WINNER of a CHOICE Outstanding Academic Title Award for 2006 As linear orders as elements of the symmetric group modeled by matrices modeled by graphspermutations are omnipresent in modern combinatorics They are omnipresent but also multifaceted and while several excellent books explore particular aspects of the subject no one book h *Implementing Discrete Mathematics* Steven Skiena,1990-01-21 Discrete Mathematics with Proof Eric Gossett,2009-06-22 A Trusted Guide to Discrete Mathematics with Proof Now in a Newly Revised Edition Discrete mathematics has become increasingly popular in recent years due to its growing applications in the field of computer science Discrete Mathematics with Proof Second Edition continues to facilitate an up to date understanding of this important topic exposing readers to a wide range of modern and technological applications The book begins with an introductory chapter that provides an accessible explanation of discrete mathematics Subsequent chapters explore additional related topics including counting finite probability theory recursion formal models in computer science graph theory trees the concepts of functions and relations Additional features of the Second Edition include An intense focus on the formal settings of proofs and their techniques such as constructive proofs proof by contradiction and combinatorial proofs New sections on applications of elementary number theory multidimensional induction counting tulips and the binomial distribution Important examples from the field of computer science presented as applications including the Halting problem Shannon s mathematical model of information regular expressions XML and Normal Forms in relational databases Numerous examples that are not often found in books on discrete mathematics including the deferred acceptance algorithm the Boyer Moore algorithm for pattern matching Sierpinski curves adaptive quadrature the Josephus problem and the five color theorem Extensive appendices that outline supplemental material on analyzing claims and writing mathematics along with solutions to selected chapter exercises Combinatorics receives a full chapter treatment that extends beyond the combinations and permutations material by delving into non standard topics such as Latin squares finite projective planes balanced incomplete block designs coding theory partitions occupancy problems Stirling numbers Ramsey numbers and systems of distinct representatives A related Web site features animations and visualizations of combinatorial proofs that assist readers with comprehension In addition approximately 500 examples and over 2 800 exercises are presented throughout the book to motivate ideas and illustrate the proofs and conclusions of theorems Assuming only a basic background in calculus Discrete Mathematics with Proof Second Edition is an excellent book for mathematics and computer science courses at the undergraduate level It is also a valuable resource for professionals in various technical fields who would like an introduction to discrete mathematics **Combinatorics, Computability and Logic** C.S. Calude,M.J. Dinneen,S. Sburlan,2012-12-06 This volume contains the papers presented at the Third Discrete Mathematics and Theoretical Computer Science Conference DMTCS1 which was held at Ovidius University Constantza Romania in July 2001 The conference was open to all areas of

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