

Combinatorics Problems, Part 1

1. Show that $\binom{r}{r} + \binom{r+1}{r} + \dots + \binom{n}{r} = \binom{n}{r+1}$.
2. Find a nice formulation for the sum $\binom{n}{0}^2 + \binom{n}{1}^2 + \dots + \binom{n}{n}^2$.
3. Let $S_n = \binom{n}{0} + \binom{n-1}{1} + \dots + \binom{n-2}{\lfloor \frac{n}{2} \rfloor}$. Show that $S_n = F_n$.
4. Given $S = \{1, 2, \dots, n\}$, How many unordered pairs $\{A, B\}$ are there where A and B are nonempty subsets of S with $A \cap B = \emptyset$.
5. Do there exist 10,000 10-digit numbers which are all divisible by 7 and are all rearrangements of the same digits.
6. A person has a coat of area 1 composed of five possibly overlapping patches. The area of each patch is at least $\frac{1}{5}$. Prove that there are two patches whose overlap has area of at least $\frac{1}{6}$.
7. A permutation of n elements is a one-to-one function $\pi: \{1, 2, \dots, k\} \rightarrow \{1, 2, \dots, k\}$. A permutation π of $\{1, 2, 3, \dots, 2n\}$ has property P if $|\pi(i) - \pi(i+1)| = n$ for at least one i . Show that for any $n \in \mathbb{Z}$, there are more permutations with property P than without it.
8. Let M be a set of $n \geq 4$ points in the plane, no three of which are collinear. Initially these points are connected with n segments so that each point in M is the endpoint of exactly two segments. Then, we perform moves where we choose two segments AB and CD that intersect and replace them by the segments AC and BD if none of them is present.

Prove that it is impossible to perform $\frac{n^2}{4}$ moves.

Combinatorics Problems And Solutions

L Darling-Hammond



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Table of Contents Combinatorics Problems And Solutions

1. Understanding the eBook Combinatorics Problems And Solutions
 - The Rise of Digital Reading Combinatorics Problems And Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Combinatorics Problems And Solutions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Combinatorics Problems And Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Combinatorics Problems And Solutions

- Personalized Recommendations
- Combinatorics Problems And Solutions User Reviews and Ratings
- Combinatorics Problems And Solutions and Bestseller Lists
- 5. Accessing Combinatorics Problems And Solutions Free and Paid eBooks
 - Combinatorics Problems And Solutions Public Domain eBooks
 - Combinatorics Problems And Solutions eBook Subscription Services
 - Combinatorics Problems And Solutions Budget-Friendly Options
- 6. Navigating Combinatorics Problems And Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Combinatorics Problems And Solutions Compatibility with Devices
 - Combinatorics Problems And Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Combinatorics Problems And Solutions
 - Highlighting and Note-Taking Combinatorics Problems And Solutions
 - Interactive Elements Combinatorics Problems And Solutions
- 8. Staying Engaged with Combinatorics Problems And Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Combinatorics Problems And Solutions
- 9. Balancing eBooks and Physical Books Combinatorics Problems And Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Combinatorics Problems And Solutions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Combinatorics Problems And Solutions
 - Setting Reading Goals Combinatorics Problems And Solutions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Combinatorics Problems And Solutions

-
- Fact-Checking eBook Content of Combinatorics Problems And Solutions
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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