

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

Ying Liu



Combinatorics Problems And Solutions:

The Enigmatic Realm of **Combinatorics Problems And Solutions**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Combinatorics Problems And Solutions** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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