

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

WJ Hussar



Combinatorics Problems And Solutions:

Whispering the Strategies of Language: An Mental Journey through **Combinatorics Problems And Solutions**

In a digitally-driven world wherever screens reign great and immediate transmission drowns out the subtleties of language, the profound techniques and mental nuances concealed within words often get unheard. However, situated within the pages of **Combinatorics Problems And Solutions** a fascinating fictional treasure pulsating with natural feelings, lies an exceptional quest waiting to be undertaken. Written by a talented wordsmith, this wonderful opus attracts viewers on an introspective trip, softly unraveling the veiled truths and profound affect resonating within ab muscles cloth of every word. Within the psychological depths with this touching review, we will embark upon a heartfelt exploration of the book is core styles, dissect its charming writing model, and succumb to the strong resonance it evokes serious within the recesses of readers hearts.

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