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## Problems

*a nice little  
combinatorics*

*problem 2019 IMO*

*Problem 5*

*Solution:*

*Combinatorics*

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Hard

Combinatorics

Part 1 [IMO 2015

#1] *Art of*

*Problem Solving:*

*Counting with*

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## Combinatorics

### *Part 3*

---

Number of  
integral

solutions

(Interesting  
application of  
Combinatorics)

**Extremal**

**Principle ||**

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**Maths Olympiad**

**Question: IMO**

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## 2018 C1 Combinatorics

Solving An  
Insanely Hard  
Problem For High  
School Students

---

challenging  
handshake  
problem

(combinatorics,  
mathematical  
olympiad) ~~Harder  
Practice with  
Permutations and  
Combinations IMO~~

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~~2020 Day 2~~

~~solutions and  
discussion of  
statistics~~

~~(insane problem  
6!!) Indian Math  
Olympiad 2014 #2~~

~~+ A floor  
problem amenable  
to~~

~~experimentation~~

Maths Olympiad  
Questions - 2017  
IMO C1RMO EXAM /



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/tricks/analysis  
/solution*

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**Principle - ISI**

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**Derangement in**

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**PRMO 2019**

**Problem 27 Be**

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L10:

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2019 Crash

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~~How to Solve Number~~

~~theory Questions~~

~~for~~

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*Croatian*

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*Olympiad | 2005*

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2006 Question 4

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/ Cengage Le  
~~Olympiad 1~~  
~~Problem 4~~  
Extremal*

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*Olympiad  
Combinatorics  
Problems*



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## Combinatorics

problems related  
to combinatorics

A lot of these  
have very non-  
standard

solutions and  
are rather di-  
cult The

following tricks  
apply to pretty  
much all  
problems

Mathematical

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1. 1959–1966 IMO

Longlist Problem

s/Czechoslovakia

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## 1; Combinatorics

### Problems

*Art of Problem Solving*

and ask for the number of positive integer solutions to the equation  $m_1 + m_2 + \dots + m_n = k + n$ . (1.1) Let us imagine  $k + n$  dots in a row. Each solution to the

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## Combinatorics Problems Solutions

equation (1.1) corresponds to a way of separating the dots by inserting  $n - 1$  bars at certain places (Figure 1.1). Since there are  $n + k - 1$  positions for the bars, one has  $\binom{n + k - 1}{n - 1} = \binom{n + k - 1}{k}$ .

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*Stephan Wagner*

*Version: July*

*2011*

Created on June,  
2011. Problems  
are taken from  
IMO, IMO Shortli  
st/Longlist, and  
some other  
famous math  
competitions.

*(PDF) 100*

*Page 22/46*

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## Combinatorics

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major combinatorics

mathematical  
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China, which

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Note that counting triples of the form  $(\text{set}, \text{set}, \text{element})$  is equivalent to counting the number of pairs of 1s that are in the same column in the incidence matrix representation.

(ii) Count

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triples of the  
form  $(\text{element},$   
 $\text{element}, \text{set})$   
where the two  
elements both  
belong to the  
set.

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