	2001 11 000 2024 341148111
to the second	Solving the ICPC A problem.
	We have 5 quations, giving us 5 equations of
	the form ai, + bk, + cl, = r,
	ai + bv + cl = 5
	aj + bk + cl = 5. Equations.
	$aj_X + bK_X + ck = F_X$
+	a) + bks + cls = 15 J Fig 1.
	In the problem, ones of the equations is false.
an en Maria	With my Girrent solution, that would'nt even
	matter, we'll always be able to get the white
	We just need a set of 4 of these equations
	to have same values.
	langa matrix to simplify my expression.
	i, ka l, q,
-	. J2 K2 L2 T2 972
	J3 K3 L3 = 15 93
	24 Ky C4 : T 94
	is ks Ls 15 95 Fig 2,
the all a secure the discount in consequence and the security of the	The number of possible 4 set combination = 5 C4
	Set of N set combo(A) = { e, e, e, e, e, e, }
	Where the member of A
	where the member of A represent a A equation

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	$F_1 = \{q_1, q_2, q_3, q_4\}$
	E, = {9,,92,93,953
	F ₃ = £9, 92, 9, 9, 3 A
	Ey = 891, 93, 94, 93
	$E_5 = \{9_2, 9_3, 9_4, 9_6\}$ Figs.
	only one of E, for. Es will be true.
Appell I	Pracs: Only one of freN: 12 n253 is false . Every In
	appears in every En ENEN: 14 n 453 except one En hence
	the 4 value of En, In appears in will be false, and
100 miles	only one to out of the 5 will be true.
1	
45000	How to voing is En is true.
	En is given by 4 equations of the form In. In
estanti.	order to verify En, these 4 equations must be solved
	simultaneously to provide integer whitions for
	(a, b, c).
	Algorithm for Schetari Using E, as a case study.
	We have En siven by:
	j, k, ti (19.
7 7	32 K2 L2 - 12 · · · 92 - E.
	j3 K3 L2 T3 92
	ju Ku Lu! Tu 94 J Fig 4
	The state of the s

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The same of the sa	(i,+i2) (K,+ K2) (L,+(2) 1,+ [2] (2,+92)
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	зи Ку L4 Г4 24 5 .
This ca	in further be resolved yoing Crammer's Rule.
How 6	o seneralize this for Ei we have the following:
N.B: L	EN: 1 \(\delta\) \(\de
Algo	prithm for Verifying £i is true.
leta	= 5 500 000 to the = 1 00
1 kns	= 5 represent the number of equations given,
holders	Will always be 5, but I just like place
n used	· Please do not let this is confuse you with the
to a	earlier in the solution. Or better yet in order
Lot	K = 5 reasonable the
We have	K = 5 represent the number of equations given. Ei given by:
	m_i n_i p_i $ h_i $
	m_2 n_2 n_2 n_2 n_2
	m_3 n_3 p_3 p_3 p_3
	my nx Px hy
	(m,+m2) (n,+n2) (P;+P2) (h,+h2) (2)
·	
	My Cy Py
	7 14 1 M4 C J

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Solving woing Gammer's Rede we have Y as: $(m_1 + m_2)$ $(m_3 + m_2)$ $(m_3 + m_3)$ $(m_4 + m_2)$ $(m_4 + m_2)$ Y = (m1+m2) [(n3 P4) - (n4P3)] - (n1+n2) [(m3P4) - (m4 P3)] + (P.+B)[(m3nx) - (mx n3)] Va Va Vaz (h1+h2) (n1+n2) (P1+P2) V1. V11 V12 120 V21 122 bo + [V + V2, - V12 + V2,] - Vo, * [Ko * V2 - V12 * V20] (mi+ma) (hi+ha) (Pi+Pa) Voz * [V10 + 6, - V1 + V20] m hu MA (ni+nz) (hi+hz) (m1+m2) m3 nz hz hx hμ m4 If (a, b, c) EN then it is our solution. Posthon Implementation of Solution Step 1: Choose values for i, ... iz, K, ... Kz, L... Lz These values should be chosen such that no three equation subset of the first system of equations has V=> undefined.

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I don't reall have energy to think of Values for
here guys so I'm just gonna use the values
porided in tot case 1.
909
- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- Land active 5 0 1 = 5
Sacre, 4 100 100 14
icit care & last get
36: 12 12 15
Time to will be collected from the user so, I'm just
gonna leave that blank
I would'ive used a loop for the next part, but I think
not using a loop maller it easier to understand
phat's soing on.
Please refer back to Fig 3, and you'll notice
- that, what we're basically doing there is this!
I, = { \cdot
Es = { \cdot
This is simply because the value of joints, Kinker
h Les are constants
Sorry my bad I forgot I'm not hard coding it.
Continuing In Gode