P86. 1Pa-P3 = 9 H 1Po-P1-0.5. declare inter - (90P=9, F.4,5739 F3n) + 1357 : 1,215 it hosts, the consense to be car case : 17289 8. INPUT: number of unknowns and equations n: augmented matrix A=(aij) where 15isn and 1sisn+1000 at the sint OUTPUT: solution x, x, x, -- x, or message that the linear system has no Step! For i=1, ..., n+ do Step2-4. Step 2. Let p be the smallest interger with 1<ps, and apito If no p can be found, OUTPUT ("Not exists") Step 3 If pri then perform (Ep) (Ei) Step 4 For jeith, and do step 5 and 6. Step 5 Set m; i = q; /a; i Step 6 Perform (Ej-m; Ei) >(Ej) Step 7. It ann = 0 then OUTPUT ("Not exists"). Step 8 For i= M:- 1. do step 9 Stop 9. E: - Ei+1(Qi,i/Qi+1,i) LEi. Step 10 Set Yn= annti /ann Step 11 For 1= n+ ,-, , set x; = a; n+1/a;;

Stop 12 OUTPUT (X, ..., X,)
Stop

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11. a. the number of i th row of multiplication is (n-i+1)(n-1)

 $division: (n+1) = \frac{n^3}{2} + n^2 - \frac{n}{2}.$

 $B = \frac{8}{101} (n-1+1)(n-1) = \frac{n^3}{2} - \frac{n}{2}$

<u>გ</u>	Gaussian		Gauss-Jordan		
	M/D	Als	M/D	A/S	
3	17	1]	21	12	
10	430	375	<i>195</i>	495	-
σο	4400	42875	64975	62475	
100	343300	338220	509955	499950	

Gaussian Elimination requires less computation.