DSECL ZC416 - Mathematical Foundations for Dota Science Arrignment - 2 (81). Implementing Guarrian Elimination Method.

(:)	Operation	Approx. time t	ale foration.
(1) De 28 p 3	Addition	1.2328 * 6 7	records
1384 CC3	Multiplication		
339308		3.4645 xe7	
1300100	(Ear		19.005

(ii) Am: Code shoved superately

1391-431 1383-1411

£175.856 1500 E16 000

(iii) Am

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Just .	With	Pivoting	22I.	Willow	Pivoting	(0.20)
Care	Addition	Multiplication	Division	Addition	Multiplication	Division
100	3,43,300	3,43,300	5,050	3,43,300	3,43,300	5,050
200		2706,600	20,100	27,06,600	27,06,600	20,100
300	9089,900	90,89,900	45,150	90,89,900	9089900	45,150
400	214,93,200	2,14,93,206	80,700	2,14,93,200	214,93,200	80,700
500	4,19,16500	4,19,16,500	135,250	04,19,16,500	419,16500	1,25,250
600	72359,800	7,23,59,800	1,80,300	7,23,59,800	7,2359,800	1,80300
700	11,48,73,100	11,48,73,100	245350	11,48,231001	11,48,73,100	2,45,350
800	17,1306400	17,13,06400	370,400	17,13,06,400	17,13,06,400	330400
900	24,38,09,700		4,05,450	243809,700	24,38,09,700	4,05,450
1000		33,4333,000	500500	33,4353,000	33,4333,000	5,00,500
	•					

(iv) Result table and graph (a) Result table.

SI.	41	Actual time with pivoting (reads)	Actual time without pivoticy (sed)	Theoretical time.
QI	100	0.43718	0.44702	6,91,650
०२	300	3.3581	3.3569	54,33,300
03	300	11.1641	11.2933	182,24,950
04	400	26.2711	27.5518	4,30,66,600
05	500	49.0445	52.4571	8,39,58,250
06	600	85-7993	91.8143	14,48,99,900
67	700	141.5861	154.7661	22,98,91,550
08	800	212.0081	238.5417	34,29,33,200
09	900	301.3688	327.5136	48,80,24,850
10	1,000	415.5138	440.9039	66,91,66,500
()	517	0000011 0000010	0 0 11 12 20 13 31	

(b) Shaved in PDF form from notebook.

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