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4 = 3.1 + 13 = 1.3 + 0

```
Date_
  1 =1(4)-1(3)
  1 = 1(4)-1 (7-1(4)
  1 = 1(4) -1(7) + 1/184).
  · 1 = -1(7) + 2((1)-1(7)).
   1 = -1(7) + 2(11) -2(7
   1 = -3 (7) + 2011
    1= 2(11) -3 (18 460) - 763(11).
   1 = 2(11) -3 (8400) + 2 289 (11).
   1 = \lambda 291(1) - 3 (8400)
    -3 => inverse
Maya = 1 (mod 16)
5775 42 = I (mod 16.
5775 = 16.860 + 15 = 15 = 15775) - 360(16
16 = 15 8.1 +1
                        1= 1(16)-1(15
15= 1-15+0
  P = 1(16) - 1(15)
  1 = 1(16) - 1 / 1(5975) - 360(16
  1 = 1(16) - 1 (5775) + 360 (16)
  01 = 3601(16 | -1/5775
    -1 =) inverse
M3 43 = 1 (mod 21
          1 mod 21
4400 = 21.209+ 11 =>- 11= 4400 - 209(21)
21 = 11.1 + 10
                      =) 10 = 21 - 1(11)
11 = 10 . 1 + 1
                     =) 1 = 11 - 1(10
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10= 1.10+0

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$$\begin{aligned} & | = |(11) - 1(10) \\ & | = |(11) - 1(10) \\ & | = |(11) - 1(21) - 1(11) \\ & | = |(11) - 1(21) + 1(11) \\ & | = |(21) - 1(21) \\ & | = -1(21) + 2(1400) - 2006 | 418(21) \\ & | = -1(21) + 2(4400) - 2006 | 418(21) \end{aligned}$$

1 = - 419 (21) +2 (4400)

2 => inverse.

$$3696 = 25.147 + 21 = 21 = 3696 - 197(25)$$

 $25 = 21.1 + 4.$ $4 = 25 - 1(21)$
 $21 = 4.5 + 1$ $1 = 21 - 5(4)$

$$4 = 1.4 + 0$$

$$1 = 1(21) - 5(4)$$

 $1 = 1(21) - 5(125) - 1(21)$

$$1 = 1(21) - t(25) - 1(21)$$

$$1 = 1(21) - 5(25) + 5(21)$$

$$1 = -5(25) + 6(3696) - 882(25)$$

$$1 - -887(25) + 6(3696)$$

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QUESTION # 02:

2 = 2 (mod 5) 2 = 3 (mod 7)

x = 10 (mod 11)

m, = 5

m2 = 7

 $m_3 = 11$

m= m, xm3+m3.

m = 5 x 7 x 1/

m = 385

 $M_1 = .885$

 $M_2 = 385$

M3 = 385

 $M_1 = 77$

 $M_2 = 55$

M3 = 35.

11

Miy1 = 1 (mod m,)

779; = 1 [mod 3.] -7 0

 $77 = 5.15 + 2. \Rightarrow 3 = 77 - 15(5)$

 $5 = 2 \cdot 2 + 1$

1 = 5 - 2(2)

2 = 1.2 +0.

1 = 5 - 2(2)

1 = 1/5) - 2 (1/97) - 15(5).

1 = 1(5) - 2(97) + 30(5)

1 = 31(5) -2(97)

-2 => inverse

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-1 =) inverse.

$$35 = 11 \cdot 3 + 2 = 35 - 3(11)$$

$$11 = 3 \cdot 5 + 1 \qquad 1 = 11 - 5(2).$$

$$2 = 1 \cdot 2 + 0$$

$$\begin{aligned}
 1 &= l(11) - 5(2) \\
 1 &= l(11) - 5(135) - 3(11) \\
 1 &= l(11) - 5(35) + 15(11) \\
 1 &= l(6(11) - 5(35))
 \end{aligned}$$

-50 invase

Date_ 7741 = 1 (mod 5 = 1(-2) mod 5. -2 mod 5 = 1 (mod 7 = + (-1) mod 7 2 = -1 mod 7 1 (mod 11 -5)= 1(-5) mod 11 -5 mod 11 M, = 77 91 = 3 x = 2(mod 5) M2 = 55 x = 3 (mod I) M3 = 35. x = 10 (mod 1/ 43=6 X = a, Miy, + a, M2 /2 + a3 M3 ys x = (2)(+7)(3) + 3(55)(6) + (10) 290 x = 462 + x = 3552 x = 3552 (mod 385 W = 5008 (mod 385 87

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Date_
DUESTION #03:
   a = 4
           , m = 9
  x = a mod m.
  2 =
          (mod
                    =)
 9 = 4.2 + 1
 4= 1.4+0.
                be 20ut coeffectents
  -2 & 1 re
                     -8 1 mod 9
  - 2 [4] (mod 9
             m = 8.141
            (mod i'l).
        19
     = 32 + 2
       217
     = 1:2+0
                               Polls
        1(3) -
                         - 2 (3)
             -7 de - Borst coeffeient
  52" and
                       RC
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$$n = 55$$
, $m = 89$.
 $n = 55 \pmod{89}$

$$89 = 55 \cdot 1 + 34 \cdot = 34 = 89 - 1(56)$$

$$35 = 34 \cdot 1 + 31 = 32 = 55 - 7(34)$$

$$34 = 21 \cdot 1 + 13 \cdot = 13 = 34 - 1(21)$$

$$21 = 13 \cdot 1 + 8 = 38 = 21 - 1(13)$$

$$13 = 8 \cdot 1 + 5 = 35 = 18 - 1(8)$$

$$8 = 5 \cdot 1 + 3 = 32 = 8 - 1(5)$$

$$5 = 3 \cdot 1 + 2 = 32 = 5 - 1(3)$$

$$3 = 2 \cdot 1 + 31 = 12 = 12 = 12$$

$$2 = 1 \cdot 2 + 0$$

$$1 = l(3) - l(2)$$

$$1 = l(3) - l(1(5) - l(3))$$

$$1 = 2(3) - l(5)$$

$$1 = -1(5) + 2(1(8) - l(5))$$

$$1 = -1(5) + 2(8) - 2(5)$$

$$1 = 2(8) - 3(5)$$

$$1 = 2(8) - 3(13) - l(8)$$

$$1 = 2(8) - 3(13) + 3(8)$$

$$1 = -3(13) + 5(8)$$

$$1 = -3(13) + 5(1(21) - l(13))$$

$$1 = -3(13) + 5(21) - 5(13)$$

$$1 = 5(21) - 8(13)$$

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$$\begin{aligned}
| &= 6(35) - 11 (54) + 11(35) \\
| &= 6(35) - 11 (54) + 11(35) \\
| &= 6(35) - 11 (54) + 11(35) \\
| &= -11 (54) + 17 (89 - 1654) \\
| &= -11 (54) + 17 (89 - 1654) \\
| &= -11 (54) + 17 (89 - 1754) \\
| &= -17 (89) - 28 (54) \\
| &= 17 (89) - 28 (232) + 56 (69) \\
| &= 17 (89) - 28 (232) + 56 (69) \\
| &= 73 (89) - 28 (232) + 56 (69) \\
| &= 73 (89) - 28 (232) \\
| &= 73 (89) (mod 232) = 6497 (mod 232) \\
| &= 73 (89) (mod 232) = 6497 (mod 232) \\
| &= 73 (89) (mod 232) = 2
\end{aligned}$$

$$\begin{aligned}
| &= 1 (11) - 7 (19) \\
| &= 19 \times 2 + 3 = 3 = 1(19) - 2(8) \\
| &= 3 \cdot 2 + 2 = 3 = 1(19) - 2(8) \\
| &= 1 (3) - 1(2) \\
| &= 1 (3) - 1(2) \\
| &= 1 (3) - 1(2) \\
| &= 1 (3) - 1(8) + 2(3) \\
| &= -1(8) + 3(3) \\
| &= -1(8) + 3(19) - 2(8) \\
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$$1 = 3(19) - 7(1(141) - 7(19))$$

$$1 = 3(19) - 7(141) + 49(19)$$

$$1 = 52(19) - 7(141)$$

benout welleved of 19 and -7 are

nd MI/

208 (mod 141 X = 67.

$$8 = 5.1 + 3$$

Attendy solved this in question# 03

Part (iii

34 and -21 cre Lezont exellerent

RC

$$332 = 89.2 + 54.$$

$$89 = 54.1 + 35.$$

$$54 = 35 \cdot 1 + 19$$

 $35 = 19.1 + 16$

$$89 = 34 \cdot 2 + 21 = 31 = 89 - 3(34)$$

 $34 = 31 \cdot 1 + 13 = 34 - 1(21)$
 $21 = 13 \cdot 1 + 8 \cdot = 8 = 21 - 1(13)$

$$13 = 8 \cdot 1 + 5$$
 =) $5 = 13 - 1(8)$
 $8 = 5 \cdot 1 + 3$. =) $3 = 8 - 1(5)$

$$5 = 3.7 + 2 = 2 = 5 - 1(3)$$

$$3 = 3.1 + 1$$
 =) $1 = 3 - 1(2)$

$$1 = 3 - 1(2).$$

$$1 = 3 - 1(15) - 1(3).$$

$$1 = 1(3) - 1(5) + 1(3)$$

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and 10 an overt

$$\begin{aligned}
& | = -1(5) + 2(3) \\
& | = -1(5) + 2(1(8) - 1(5)) \\
& | = -1(5) + 2(8) - 2(5) \\
& | = 2(8) - 3(5) \\
& | = 2(8) - 3(13) - 1(8) \\
& | = -3(13) + 5(8) \\
& | = -3(13) + 5(12) - 1(13) \\
& | = -3(13) + 5(21) - 5(13) \\
& | = 5(21) - 8(13) + 1(21) \\
& | = 5(21) - 8(34) + 8(21) \\
& | = -8(34) + 13(21) \\
& | = -8(34) + 13(89) - 26(34) \\
& | = -8(34) + 13(89) - 26(34) \\
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& | = -34(34) + 13(34) - 12(34) \\
& | = -34(34) + 13(34) - 12(34) \\
& | = -34(34) + 13(34) - 12(34) \\
& | = -34(34)$$

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V. 144x = 4 (mod 233)

$$1 = 1(3) - 1(2).$$

$$1 = 1(3) - 1(1(5) - 1(3))$$

$$1 = 1(3) - 1(5) + 1(3)$$

$$1 = -1(5) + 2(3)$$

 $1 = -1(5) + 2(1(8) - 1(3))$

$$1 = 2(8) - 3(5)$$
.

$$1 = 2(8) - 3(13) + 3(8)$$
.

$$1 = -3(13) + 5(8)$$

$$1 = -3(13) + 5(1(21) - 1(13)).$$

$$1 = -3(13) + 5(21) - 5(13)$$

$$1 = 5(21) - 8(34) + 8(23).$$

$$1 = -8(34) + 13(55) - 13(34)$$

```
1 = 13/55 -21. [34]
 1 = 9/3/55) -21/1(89) -1(55)
           1-21 (89) +21(55
1= = 13 (55)
              + 34 (55
 1 = -21/89
              +34/8/(144)
1 = -21 [89
             + 34/1441 - 34/89
1 = -21 [89]
             - 55 (89
 1 = 34(144
               -55/1(233)-1
1 = 34/144)
 1 = 3(144) -55 (233) +55 (
              -55 (233
 1 = 58/144
58 and -55 we beroit coefficients
                     mod 233
          = 4 (58)
 144 (58
                 ( mod 233
           232
    X:
           232
  200x = 3 (mod 232
282 = 200 - 1 + 32
200 = 32.6 + 8.
32= 8.4+0
 god No inverse possible
```

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	\$2 F. Mar State
QUESTION # 05	QUESTION # 07
7.7.3	
h(K) = K mod 97	h(K) = K mod 31
711) = 6 1101	h(218) = 218 mod 31 =
9) 1234566554.	h/2201 = 220 mod 31 = 3
24	h (100) = 100 (nod 3) = 7
0, 1	h/0071=007 mod 31=8
6) 3574953579.	h(310) = 310 mod 31=.0
52.	h(111) = 111 mod 31 = 18
	h(048) = 048 mod 31 = 17
9 7346309359	
3	
	60 to 22.220
d) 73483684348	Element Leading Contracting
47	en against the figure of the second
QUESTION # 6	51 - 40 a [2 + [4 + 6] = 1.5
0,000	
a) 1234566554	E1: 1000 12 = (9/1) = 11 = 1
3.3	5 - 6 F
The state of the s	31 mora (2 = (0))) = Her
6) 3574953579.	20 to 10 to
100	121 2006 (25 (5") 2 1 m
1 10 10 1	01 - 78
c) 7346309359	1881 = [4 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
23. =) 23+1=)	24-
	- 1 May 1 - 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
d) 73483624348	E - 7 E
66	

QUESTION #08

$$\chi_{n+1} = (3\chi_n + 2) \mod 13$$

 $\chi_{0+1} = (3(1) + 2) \mod 13$

21 = 5

$$\chi_3 = 1$$

QUESTION #09.

$$\chi_1 = 1$$
.

QUESTION # 10. 007119 881 1(0)+2(0)+3(7)+4(1)+5(1)+6(9)+7(8) +8(8)+9(1) o 21+4+5+54+36+64+9 231 mod 11 = 4 check digit => 4. DUESTION #11 Attacked Screenshot QUESTION # 12 i. 1,5 V- 111/11/1, 11/1/// 5 = 5.1+0. 11/1/11/ = 11/1/11.1 + 1 gcd => 0. 11) 123,277 277 = 123.2 + 31 123 = 31.3 +30 31 = 30.1+1 9cd => I iii) 100, 101 10/ = 100. 1 +1 188 = 35.5+13. gcd =) 1 35= 13.2+9. 13 = 9.1 +4 9=4-2+1 IV) 1539, 14039 14039 = 1539.9 + 188. gcd => 1 1539 = 188.8 +35

```
OUESTION # 13.
```

$$1539 = 34 \times 19'$$
 $14039 = 101' \cdot 139'$
 $9cd(1539, 14039) = 3^{min(400)}, 19^{min(100)}, 101^{min(00)}$
 $= 3^{\circ} \cdot 19^{\circ} \cdot 101^{\circ} \cdot 139^{\circ}$

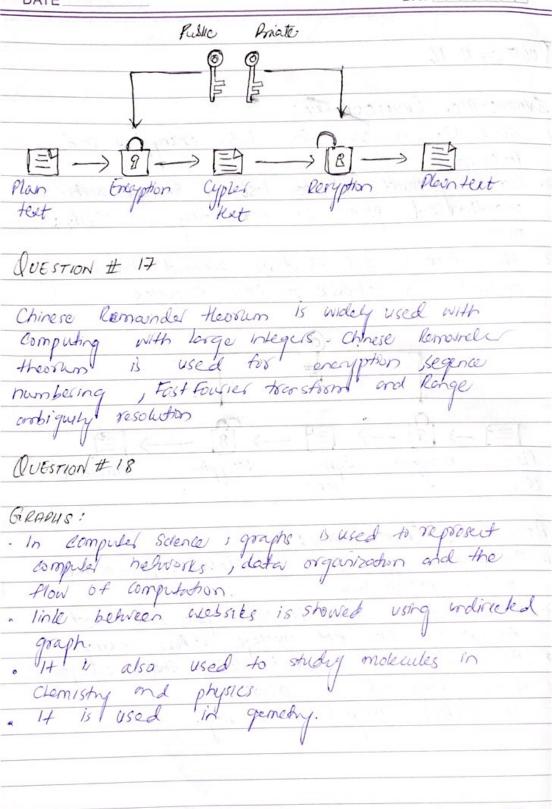
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011	cerii	n #	14		14	7- 1				48		Ü
				4	5	6	7	8	9	10	11	0
0	1	2	3	E	F	0 1	4		T	K	1_	
A		C		16		18	19	20	21	22	23	
12	13	14		Q	R			0	V	W	X	
M		0.	P	X	"					•		
24	25		* 10									
γ	3						())	1		37 1	(111)	
				(1)		<i>(</i> - ,	(1)	1 02	6	(P+1		26
Mes	sage	150)	-4	2 Jmod 2	26	(P+	13 /1	noa =	0.	15=	P.	2.4
I		44/2		10 = K	9.404			22,84	\$ 5	7,7=		YX
A		7		2.3 C			=) N		47		T	3
M		14		1470			(=)		21/-		=>S	uş.
L				3 => N			4=>				> L	
E		14	Ę	6=>6	V		7 => R		30			Tys.
A		3	73:	2 => C	- 5		3=>1				H	4
R		40	1	9.=> T	3		1=) (3 13		> Y	-
N		1	991	5=> P	1	- ($0 \Rightarrow A$		36		=> U	-
I	- 5	(0	- 10) => K	N		21=)		30		=) P	- 1
N		51 0	119	5=>P	17		0 => A		70 C		=> U	-)\
61.		10	. 8	=> I			19=>1		0, 6		=) N	14
D			S	=> F		e 1 - 5	16=>0	9	201		=) K.	/12
I		0 (12) => K			11=)1		38		=> P.	Λ
5			21	コーシレ		5	=) F	-			=) 2.	
C			4	=) E			5=>			7 =	シエ	
R			19	シナ		4	(=) E	= 1		24	=) Y.	
E			6	=> 6		17	=) R			//:	=> L	
C R E T				=> V		6	=)6			6 28	=> A	
E				=) 6		1-	7=) P.			11:	-) L	
ES) =) U			=> F			25	=) 2	
7				=) V		6	=)6.			0	=> A	
1												

DATE				DAYMTWTFS	S
R		19 => T	U => .	E 24=74	
U		22 =) W	7=) 1	1 -1 0	
C	11	4=>E	15=DP	9	
T		21 =) V	6=)6.	• • 0	
U		22 =>W	7 -> 4	1=>8.	
6	7	19=>T	4=)6	24=>4.	-
E		6=>6	17=>R	11=) L	
Dur	/	,_	*	, ,	
WUES	STION#	15.	10	1.71.1	
21 2	Section 2	(IV)	(v)		
Messa	ge	(2p+2) mod		mod 26 (2pt7) mod 2	6
M		D>A	11=)		
4	(-	22=> N	9=>		
N	3 4= 1	2=)C	13=)1		
A	1 (=	2 => AC	13=)1	V 7 => H	
m		1 => A	11=) 4		
E	A. See.	10=)K	21=)(5 15=) P	
I	17.	18=15.	3 => [
5	11/2	12=) M	23 =) }		
K	3.6 3	22=) W	7=)/	1 => B	
4	30 / = 1	16 => Q	1=)B		
A	2 (000	2=) C	13 => N	7 => 4	
\wedge		270.	(130)N	9=)4	
	X 6-31				
	TEI		4 (7)		
	E (# 1/2		300	1011	
	1				
	V & Ob		1965	V 6 14	
	S de N		3 (2.1)	(1 (c ·)	
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			10,522		
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DUESTION # 16.	9 (7
SUMMETRIC COYDTOBER	OPHY:	J. Committee
some Key is used	l for both	encryption and
De cryption.		1'.
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· Secret key must ho inauthorized partie	s or ele	they can read
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ASSYMMETRIC COUPTOBERS	PHY:	
Assymmetric uses p	our of rela	ked loys - a public
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· Public Key is acco	essive to even	yone and used to
encypt a plain k,	at message	before serdig.
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. Porace may is nee	ded to deen	1pt the message.
. Privale Key is nee	ded to deen	
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Page No.



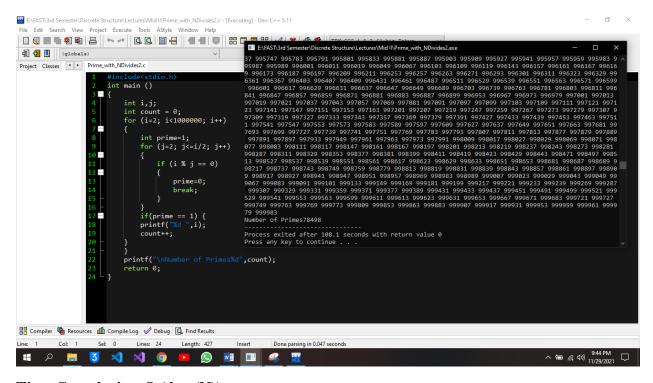
MATRICES:
MATRICES: Matrices are used in science to show reflection
and Government of the second
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quentom methonics and conversion of electrical
energy. Motrices de also use to statementorile equations. Matrices de used 3D visualisation of objects.
in garring.
Number Thospy: Results generaled from Number theory have can Hess application in mathematics us well as practical applications including security, memory monagement, authentication, could be theory etc.
CRYPTOGRAPHY: Cryptography is at the intersection of discipline of matternatics, computer Science, electrical engineering communication and physics. Application of cryptograp include electronic commerce, payment ands, digital averacely computer passions and military communication.

Question#11:

• Prime with Eratosthenes

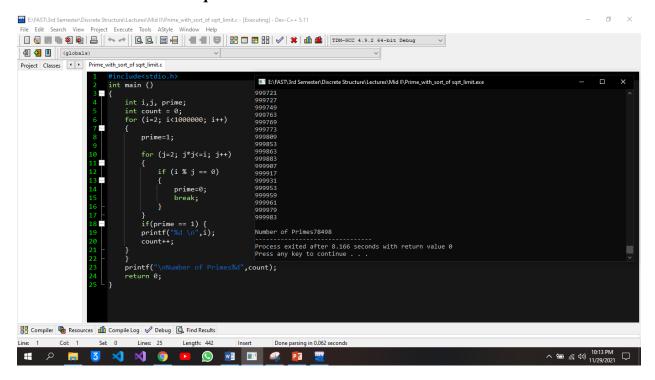
Time Complexity: O (N log (log N))

• Prime with N divides 2



Time Complexity: O (log (N))

• Prime with sort of sqrt limit



Time Complexity: O (sqrt(N))

BEST:

The best algorithm to find prime number is Eratosthenes because of its best time complexity.