DMS (19/05/22) Invertible > Inverse exis Non-Invertible = Inverse does no Relatively Prime > It GOD of numbers is I getter are relatively Prime. eig 6CD(9,19) =1 Two integer (a, b) are relatively grime iff GCD (a,b) = I Kisi bhi zn mai, tear a of every element a po exist, if other than & n are relatively prime. Z10= 30, 1, 2, 3, 4, 5, 6, 7, 8, 93 Z10= {X, X, 2, 3, 4, 5, 6, 7, 8, 97, N, 9 N, 9 N, 9 J

	Eucledean Algorithm.	
	4 Effective way to find GLD.	
And the state of t		
	· 6CD (85,34)	
	85 = 34/2) + 17.	
	34 = 17(2) + 0.	
(Pinkerno des recommendado de la companya del companya de la companya de la companya del companya de la company	17 is the GCD.	
Name of the last o		
Marie de la companie	· GCD (1331, 1001) using Eucledean Me	that
	1331 _ 1001 (1) + 330	
	loo1 = 330/3) + 11.	
Processing of what progression and a state of the state o	330 = 11/30 + 0	
	GCD	
Name Transfer of the State of t		
	· 6 6CD (9888, 6060)	
	9888 = 6060 (1) + 3828.	
	6660 = 3828(1) + 2232.	
	3828 - 2232(1) + 1596.	
	2232 = 1596(1) + 636	
•	1596 = 636(2) +324.	
	636 = 324(1) + 312.	
	324 = 312(1) + 12.	
	G(D=12) $312 = 12(26) + 0 -$	

	1331 x + 1001 y = 11,	
	Reverse the Eucledean Algorithm	
	11 = 1001 - 330(3)	
	11 = 1001 - [1331 - 1001]	3)
	11 = 1061 - [331(3) + 100]	
	11 = 1001(4) - 1331(3)	
	11 = 1001(4) + 1331(3)	
	y x	
	• (213, 117)	
	213 = 117(1) + 96	
	117 = 96 +21	
	9b = 21/4) + 12	1
	21 = 2 1) + 9.	
	12 - 9/1) + 3.	. ,
	$9 = 3 3) + 0 \cdot [3 = 6]$	cD_
	213x + 117y = 3	
	3 = 12 - 9.	
Silver - Miller State of the St	3 = 12	
pay conductivation contains a contains and the contains and the contains a co	3 = 12 - 21 + 12	
NEW AND ASSESSMENT OF THE PROPERTY AND ASSESSMENT OF THE PROPERTY OF THE PROPERTY ASSESSMENT OF THE PROPERTY ASSESSMENT OF THE PR	3 = 2 2 -2	
Marketon and the second	3 = [96 - 21/4)](2) - 21	
	3 = 96/2) - 21/8) - 21	72.7
	3 = 96/2) - 21/9)	

3 = 96[2) - (9)[117 - 96]	
= 96/2) - 117 (9)+ 96/9)	
3 = 96 (11) - 117(9)	
3 = [213-117][11) - [17][9]	
3 = 213(11) - 117(20)	
3 = 213(11) + (17(-20))	
$\Rightarrow \boxed{\chi = 11} \Rightarrow \boxed{q = -20}$	
252n +198y = 18	
252 = 198(1) + 54.	
198 = 54(3) + 36.	
57 = 36/1) + 18	
36 = 18/2) +0	
[18 = 6CD]	
18 = 54-36.	
18 = 54 - [198 - 54/3)]	
18 = 54 - 198 + 54/3	
18 = 54/4) -198	
18 = [252 - 198](4) - 198	
18 = 252/4)-198(5)	
18 = 252(4) + 198(6)	
x=4, y=-5	

	DMS (31/05/22)	
	26 = {\delta, \tau, \times, \times, \times, \times, \times, \times, \times \times \\ \times \times \times \\ \times \times \times \\ \times \times \\ \times \times \\ \times \times \\ \t	
	Relatively Prime.	
	6CD (a,n) -1 a-moden exists.	
phic decision and the second s	z ₇ = {0,1,2,3,4,5,6}	
and the same of the property of	· Calculate 5 Mod 7	
	$7 = 5(1) + 2 \cdot 7\sqrt{15}$	
	60=1 $5=2(2)+1$ 14	
productive and an artist and a second	$\int_{S^{-1}Mod} \frac{1}{1} = S - 2(2)$	ification
	$= 5 - \left(7 - 5\right)\left(2\right)$	
	= 5 - 7(2) + 5(2)	
	$1 = 5(3) - 7(2) \cdot = 5(3) + 7(-2)$)
	5-1 Mod 7 = 3 Mod 7 -	
	5.3Mol7 = 1 Mol7.	
Management sector secto	LHS	
English contains the second and second and second and second	15Mod7 = IMod7.	
BANGTER BETTANDEN STERNE S	itis = R.H.S,	
well-standard dispersion of the edition and the same year	50 5-Mod 7 = 3 Mod 7.	
	7, = \\ \(\), \(
promite de feat haar en commercia assistante de accesso accesso de	· 8 ¹ M.d II	
Mark of the of the a today Consideration in recoverable	11 = 8/1) +3.	
	8 = 3(2) + 2	
The state of the s	3 = 2 1 + 1 2 = 1(2) + 0	ATT, CA
	2 = 1/21 + 0.	

<u></u> ==	GCD=1 50 8-1 Mod 11 es	
	1 = 3 - 2/1	
	= 3-2 [18-3(2)]	
	= 3 - 8 + 3(2)	
	1 = -8 + 3/3	
	-8+[11-8](3)	
	= -8 + 11/3) - 8/3).	
	= 11/3) - 8/4	
The state of the s	1 = 11(3) + 8(-4)	
AND THE PROPERTY OF THE PROPER	-4Madll = 7Modll	
	18-1 Mod 11 - 7 Mod 11.	
	Verification:	
	H (8 x 7) Mod 11 == 1 Mod 11)	
para di santa di sant	then it is true else false.	
pote		
Manufacture - administrative - approximation of the	8 x 7 = 56 11 56 55	
MATERIAL AND	Proved.	
	zq= {0,1,2,3,4,5,6,7,8}	
	6-1 Mod 9	
published to the second control of the secon	Not exist, because 6 & 9 are	
	not relatively Prime	

	• 7" Modq.	
	9 = 7 (1) +2.	
	7 = 2(3) + 1	
	2 = 1/2 + 0	
	G.C.D = 1 , 7-1 Mod 9 exis	<u> </u>
-	1 = 7 - 2(3)	,
	$= \frac{1}{7} - \frac{9}{7} - \frac{7}{3}$	
	= 7 - 9(3) + 7(3)	
No. of Concession, Name of Street, or other Designation, or other	= 7/4 - 9/3	
	1 = 7/4) + 9(-3)	
	7-1	
Honogamina	-> 7-Mod 9 - 4 Mod 9.	
	Proof: 17x4) Mod9 = 28 Mod9	
	~ 1 Mod 9.	
	z10 = 30,1,2,3,4,5,6,7,8,9}	
	s-1 Mod 10 ⇒ Not exist.	
	· 9-1Mod 10	
	10 = 9/1) +1	
	9 = 1/9 + 0	
	$G(D=1) \Rightarrow 9^{-1}Mod10$	exist.
	1 = 10 - 9(1)	
	= 10 - 9 (10 - 9)	
- Control of the Cont	= 10 - 9(10) + 9(9)	
Carl Carl	1 = 10 + 94	

9 Mod 10 = 9 Mod 10 Broof . 9Mod 10 = 9 9 Mod 10 9x9Mod 10 = 8/Mod 10 = 1 Mod 10 Affine Cipher Two keys involved key = k(a,b). y = (an +b) Mod 26 $n = a^{-1} \left(y - b \right) Mod 2b$ VOTE, key=k[5,7] · Encrypt yr = [5/21) + 7] Mod 26 = 112 Mod 26 = 8 Mod 26 clial 71.