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Answer

for encryption,

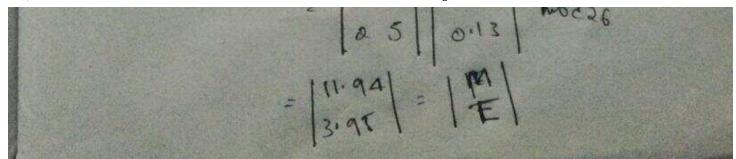
the formula for cipher text is C = K.P MOD 26

for decryption,

the formula for plaintext is $P = K^-1$. C MOD 26

I have attached my noptes regarding calculations.

C-R.P mod 26 encryption
P: K-1.c modes - decryption
et-meet me at the usual place rather than
elight to clock K' Adj(K)
P(qu) (clack K' = Adj(K) Key = [7] 3] 1K1
$ \left[\begin{array}{c c} c & c & c & c & c & c & c & c & c & c$
$\begin{aligned} \text{Key} &= \begin{bmatrix} 7 & 3 \\ 2 & 5 \end{bmatrix} & = \begin{bmatrix} 5 & -3 \\ 29 & -2 & 4 \end{bmatrix} \end{aligned}$
P = K-1.c mod 26
124 4 19 124 0 19 19 7 4 20 18 20 0 11 15 11 0 2 4 17
MEET ME AT THEU SUML PUACER
TAT THE TOT TO A TOUR TOUR TOUR TOUR TOUR
AT HE RT HAINE 24 HT TOC LO TCK 0 19 + 4 H 19 + 0 13 4 8 6 + 19 14 2 11 14 2 10
$P_1 = \begin{bmatrix} \frac{5}{29} & -\frac{3}{29} \\ \frac{-2}{29} & \frac{1}{29} \\ \frac{-2}{29} & \frac{1}{29} \end{bmatrix} \times \begin{vmatrix} 12 \\ 4 \end{vmatrix}$ and 26
-2 <u>1</u> 4
= 1.65 mod 26 => ad
Mod 26 TA
44
0 -> C1 => R= K.p mod 26
- C1 = K.P, mod 26
[7 3111.65]



$$P_{3} = \begin{vmatrix} \frac{5}{89} & \frac{-3}{39} \\ \frac{-2}{29} & \frac{3}{29} \end{vmatrix} \times \begin{vmatrix} 4 \\ 19 \end{vmatrix} \mod 26$$

$$= \begin{vmatrix} -1.27 \\ 4.31 \end{vmatrix} \mod 26$$

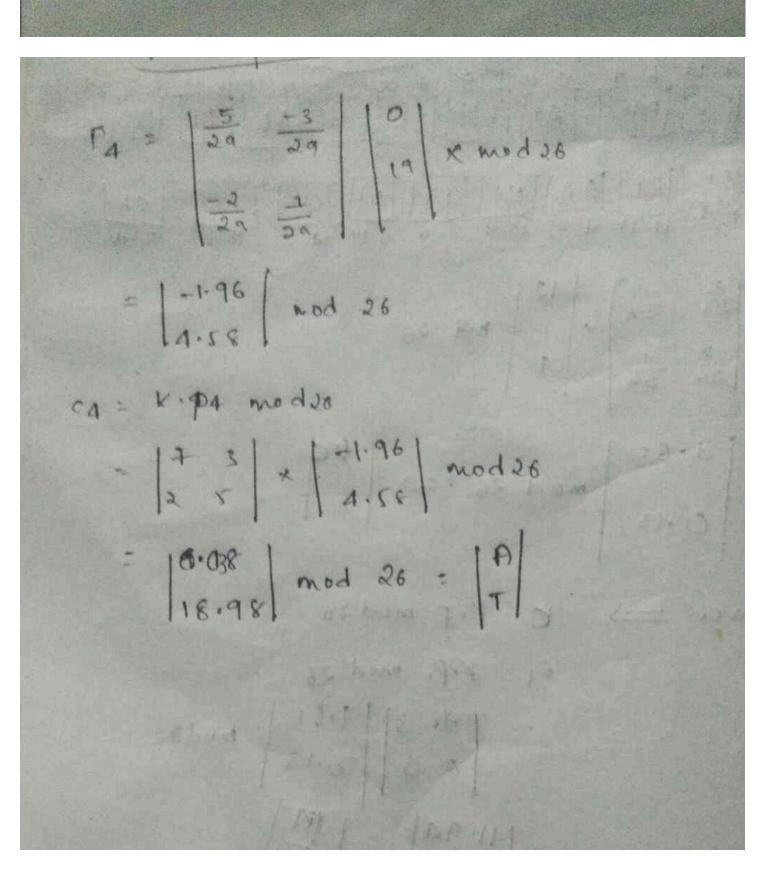
$$= \begin{vmatrix} \frac{1}{4} & 3 \\ 2 & 5 \end{vmatrix} \begin{vmatrix} -1.27 \\ 4.31 \end{vmatrix} \mod 26$$

$$= \begin{vmatrix} \frac{1}{4} & 04 \\ 19.01 \end{vmatrix} \mod 26 = \begin{vmatrix} \frac{1}{4} \\ -2 \end{vmatrix} = \begin{vmatrix} \frac{3}{29} & \frac{3}{29} \\ 0.137 \end{vmatrix} \times \begin{vmatrix} 12 \\ 4 \end{vmatrix} \mod 26$$

$$= \begin{vmatrix} -0.55 \\ 0.137 \end{vmatrix} \mod 26$$

$$= \begin{vmatrix} -0.55 \\ 0.137 \end{vmatrix} \mod 26 = \begin{vmatrix} \frac{1}{4} & 3 \\ 2 & 5 \end{vmatrix} \times \begin{vmatrix} -0.55 \\ 0.137 \end{vmatrix} \mod 26$$

$$= \begin{vmatrix} -3.46 \\ -0.97 \end{vmatrix} \mod 26 = \begin{vmatrix} \frac{1}{4} & 3 \\ 2 & 5 \end{vmatrix} \times \begin{vmatrix} -0.55 \\ 0.137 \end{vmatrix} \mod 26$$



NOTE: It was a big question I tried my best doing it. I have done maximum I have mentioned the formulas along with calculations. Please give an upvote for any queries please do comment

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