Baig. a= 1573, 0= 308. Tim UCLN

 \emptyset $A_1, A_2, A_3) = (1,0,1573)$ $(B_1, B_2, B_3) = (0,1,308)$

Q = A3/B3 = 1573/308 = 5

Pat (A1, A2, A3) = (0, 1, 308)

 $(B_1, B_2, B_3) = (1, -4, 33)$

Q = 9

(A1, A2, A3) = (0,-4,25)

(B1, Bd, B3) = (-9,37,11)

Q = 3

Pat: (A,, Az, Az) = (-9,37,11) (B1, B2, B3) = (28,-115,0)

VI B3=0 nen UCLN (15+3, 308) = A3=11

Bai 10. Trush 3dd mod 23

a=3, k=22, n=23, ki=10110, t=4

gan b=1, neu k=0 return 1;

gan A=a, neu ki=1 => b=a;

10h (i=0; iz=t; i++)

A = A mod n

New ki =1 => b= A.b modn;

returns;

Bang mô ta' car bille thên

i	0	1	2	3	4
ki	0	1	1	6	1
A	3	9	12	6	13
h	1	g	16	16	1

Vây: gde mod 23 = 1

Bai 16. grai not string du

5x = 20 mod 6

 $6x = 6 \mod 5$

4x = 5 mod 77

× = 4 mod 6

X = 1 mod 5

 $X \equiv 3 \mod F$

m = f.6.7 = 210

 $m_1 = 35$, $m_2 = 4d$, $m_3 = 30$

35 y = 4 mod 6 y = 2

Adye = 1 mod 5 (=) ye = 3

30 ys = 3 mod 7 y3 = 5

=) X = My. y + m2. y2 + m3. y5 mod m

= 346 mod 210

= 136 mod 210

Bai 15.

Tmy: f (490), f (768)

€ A90 = 2.5.7°

 $f(490) = 490.(1-\frac{1}{2}).(1-\frac{1}{5}).(1-\frac{1}{7})$

® \$ (768) = 28 28.3

 $1(368) = 368. \left(1 - \frac{1}{2}\right). \left(1 - \frac{1}{3}\right)$

Bai 12.

(3)
$$9.9 \mod 37 = 1$$

 $1 = 1$

21 mod 10 = 2
$$2^{13}$$
 mod 10 : 3
 2^{5} mod 10 = 15 2^{17} mod 10 = 10

Vay cal phân tử arguyên thuy air nhơm nhân ZU là: {2, 3, 10, 15, 14, 15 }

Baill Trih can bai 2 wa 12 mod 37

$$\frac{12}{37} = \frac{4}{37} \cdot \frac{3}{37} = \frac{2}{37} \cdot \frac{3}{37}$$

$$=(-1)^{d}$$
, $1=1$

$$= 10^{9} \mod 37$$

$$= (10^{3})^{3} \mod 37 = 1$$

$$=(12^{3})^{3}$$
 mod $37=1$

Bai 17.

$$(B_1, B_2, B_3) = (0; 1, 17)$$

$$Q = S$$

 A_1 , A_2 , A_3) = $(0, 1, 17)$
 $(B_1, B_2, B_3) = (1, -5, 16)$

Ban ma: PSZI QIERW RIZIV LEZMRK XS WEC CSY EVI WSVVC

Bang phương pháp vét can ta tim được k= 4

To the diec ban so: LOVE MEANS NEVER HAVING TO SAY YOU ARE SORRY

baid.

ban 18: I may not be able to grow glowers but my garden produces Just as many dead leavest, old overshoes, pieces of rope, and hushels of dead grass as anybody's. And today I bought a wheelbarrow to help in clearing it up I have always loved and respected the wheelbasson. It is the one wheled relicle of which I am perject master

Ctxt A B C D E F G H I J K L M N O P Q R S T U V W X Y 3781292451571875131061 20 Freq 1 13 10 12 2 19 6 14 4 15 20 9 11 17 22 3 7 18 16 Rank Ptxt v lhiwafde symlnus o t

C → e : vì C xuất hiện nhiều nhất

Q - j: Vì chỉ xuất hiện 1 lân

Z > h: 10 7 20 nhưng chí với 1 C2 và HE xuất hiện nhiều thư d.

N > i : Du doan

U > t: 6 2 U2C và THE là trigram thường xuất hiện nhất

The body of the first of the fi

elc)

Ban 20°: This is a the eanadian national anthem in French, as might be sung from time to time in Quebec

- Tong 66' he' tu' là: 198

Ordr 0 1 & 3 A 5 6 7 8 9 10 11 12 13 14 15 16 1718 19 20 21 22 23 24 25 Ctxt A B C 0 E F G H I T K L M N O P Q R S T U V W X Y Z Freq 13 21 32 13 10 1 16 6 20 1 2 20 4 12 1 6 4 2 1 4 Rank & 2 1 10 X 9 5 11 3 4 8 12 Ptxt i t e p a l w h s d o 2 k v g & c n y j v 4 9 b m x

 $C \rightarrow e$ highest count $B \rightarrow t$ workled

=)
$$\begin{cases} 4a+b=12 \\ 19a+b=10 \end{cases}$$
 $\Rightarrow \begin{cases} a=9 \\ b=4 \end{cases}$

$$l_k(x) = 10x + 4$$

$$d_k(y) = 11(y-4) = 11y - 44.$$