• Раштор - Каньизо 07.10.25

Ong. K- Kanago, L- uglan Kanbiga K (K, +, .)

K/L - spourton-kausigo K no ugeoney L

S at + G} (KNOCCER BELLETEB NO (N1)

Уример.

$$0 + 4 = 4$$
 $2/4 = 2(0 + 4), (1 + 6), (2 + 4) = 2$

Demtere reger

Onp. $\alpha, \beta \in K$, $\alpha \cdot \beta = 0$, $\alpha \neq 0$, $\beta \neq 0$

a - repen demitere right

6 - mabbie gluetens ryud

 $(K, +, \bullet)$ $\alpha, \beta \in K, \alpha \cdot \beta = e_+, \alpha \neq e_+, \beta \neq e_+$

Orp. K- Kommyt. Kontigo generalis hynn

Уписер.

Zs = 30, 1, 2, 3, 48, +, ·

Denutales right reet

Отр. Пане - коншут. конацо с единицей, у которого bel renguebal zuemerte apportunist. $\mathcal{U}(P) = P^*$ P* - myretunulusetubrised yrymal name Tynney. I - Konbigo yen- uncli a - none pouquan uncer R - none benjectbernour rucen. C - nave kommekenere unell. Михи- каньиго квадративих могтриц. PEXJ - Kanbiso unavaracenal. Z[i]=qa+bi, a, b e ZZ - Konbigo Toyceoboine rueli Zp - naul Teoperia. Un - naue - n - mactae que no 1. Un, n=ab, ab=0=7 a, b-quiether regust =7 => a, e re odpatune =7 Zn - re noul 2. $\mathbb{Z}_{p} = \{0, 1, 2, ..., p-1\} \quad \alpha \neq 0$ $o \cdot \alpha = 0$, $1 \cdot \alpha = \alpha$, 2α , 3α , ..., $(p-1)\alpha - bce produceros$ k a = m·d = x = m 7 6: 69=1 =7 6=01 B Teoperia Marcal Teoperia Leguna $\forall \alpha \neq o \pmod{p} \quad \alpha^{p-1} = 1 \pmod{p}$ * 4p - noul => Up - mynotummensotubrione yrymae nous $Z_p^* = \{1, 2, \dots, p-1\}$ Card Zp = p-1 Yac Zp Carda - general p-1 α $Cardal = 1 = 7 (\alpha Cardal)^{2} = \alpha^{2} \cdot Cardal = \alpha^{2} \cdot 1 = 1$

```
Tynnep
    2^{1000} (mod 17) = 2^{(16.62+8)} (mod 17) = 2^{8} (mod 17)
   216 = 1 (mod 14)
                                          Xapantepuetura nous
   Ong. Pr-nognace vouse P
   Pr-nagkaneaus Kantiga Pu Pr-nance
P-pacumpenuel nanx Pr
 Пришер.
  Q-nagnaile R, R-nacimplime Q
 Ong. P- mastal named ( net netymbrousenesse nagnanti)
 Teopenia. Y P-noul I! moctal nograne P,
  P_1 \cong Q \quad P_1 \cong \mathbb{Z}_P
2 {e, e.,... } → {o, 1,...}
  1 EP1 =7 1+1 = 2 EP1 = 7 3 EP
  1) 1+1+1+...+1=0 P1= Zp
  2) 1+1+...+1+...

(1+1)^{-1} (1+1+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1} (1+1+...+1)^{-1}
         P1 CP, P2 CP, P3 CP, P1 NP2 N. - magnaire 1
    Oup. P, y Kotoparo npoctol nognere P, = Q
     Char P=0
  Oup. P, y Kataparo npactal nagnace P, = Zp
     Char P=P
```

Karl-Go Enemeral pana = PK 30,13 = 1/2 P-mactal, K-natypoulbual Zp-noul 2, 3, 4, 5, 8, 4, 8, 9, 16, 11 Karayo maraneluas (do, d1, d2, ..., d1, ...), di E A - Koulogo Karennae nicuo a: +0 (a, a, a2,...) + (bo, b, b2,...) = (ao+bo, a+b1,...) (do, d, d2,...) . (Bo, B1, B2,...) = (Co, C1, C2,...) Co = 00 bo, C1 = 00 b1 + 01 bo, ..., Ck = \(\int \alpha \cdot \beta \cdot \cdot \beta \cdot \cdot \beta \cdot \cdot \cdot \beta \cdot \cdo\cdot \cdot Karayo unaraneluab nag nanbusan t "A[x]" Tymnep. $\mathbb{Z}[x] = \{ \alpha_0 + \alpha_1 2\epsilon + \alpha_2 x^2 + \dots, \alpha_i \in \mathbb{Z} \}$ Zz[x]= \ 2, 2+1, 22+1, 20+2+1...}