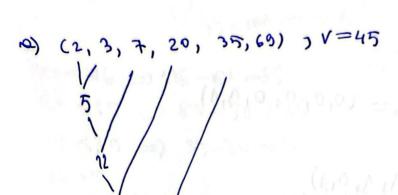
Tema

8. Pentru ficere din spurile urmatoare, diciditi dacă urte supercrucator oi determinat; toate neutile problemi rucsacului cu volumul corespunsator.

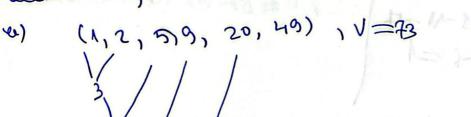


retissaroneques eta lungo E 28> E).

65745 35<45=> 45-35=10 20790

7~10=107=3

3=3=3 3-3 => moraul est umplut complet Devi : colutia este : E = (0,1,1,0,1,0)



37 × 49 - well into reprovocation

49 < 73 = 773 - 49 = 24 20 < 24 = 24 - 20 = 4 374 7 574 2<4 = 3 4-2=2 1<2 = 7 1<2 = 7

(1, 3, 4, 12, 22, 45), V=67

45 < 67 = 367 - 45 = 22 22 = 22 = 322 - 22 = 0Decis a callificanti: $\xi_0 = (0,0,0,0,0,1,1)$ Oalta callificanti: $\xi_1 = (0,1,1,1,0,1)$

d) (213, 6, M, 21, 40), V=39

40739 21 < 39 = 739 - 21 = 18 21718 21718 31718 3171 371 371

(a) (4,5,10,30,50,101) $1 \vee = 186$

 $101 < 186 \implies 186 - 101 = 85$ $50 < 185 \implies 185 - 50 = 35$ $30 < 35 \implies 35 - 30 = 5$

10>5
5=5=0 > rusaeul set umplut complet
Dei solutia est: E = (0, 1, 0, 1, 1, 1)

\$ =8 => régreel mu este reprovendentes 60743

60743 28 <43 => 43-28 = 15 | Devi solutia ente 15 = 19 => 15-10 = 0 | E=(0,0,0,1,1,0)

(a)
$$x \in \mathbb{N}$$

Ao, a_1, \dots, a_{k-1} minimul
Ao an ar az a_4
1 2 2 9 16
1 2 2 23...
 $a_i = 2^i$, $f_i = 0, k = 1$
 $V = 443$
 a_0, a_1, \dots, a_{k-1}
 $1 \ge 1$
 $1 \ge 2^i$
 $2^i = 2^i$

$$2^8 = 256$$
 $2^9 = 502$ $2)$ $Ai750$, $4i70$
 $2^9 : 2^1 : 2$

$$\mathcal{E} = (1,0,0,1,1,0,0,1,1,1,0,...,0)$$

$$2^{0} + 2^{1} + 2^{2} + 2^{1} + 2^{1} + 2^{1} + 2^{1} + 2^{1} + 2^{1} + 2^{1} = 255 \times 473$$

$$\frac{1}{2} \text{ od pt } \text{KK9}$$

₩=634,51,58, 11,393

YHW= X

W=22 = 10100 => K1= 0.34 +1.71+1.58+0.11+1.35

H=7=0@111=) R2 = 1.34+1.51+1.58+0.11+0.39

Y=24= 11000 => £3= 0.34+0.51+ 0.38 + 1.11 + 1.39

C=(N48, 143,50)

 $6.00 = 18.34 \pmod{61} = 2$ $6.00 = 18.34 \pmod{61} = 3$ $6.00 = 18.58 \pmod{61} = 3$ $6.00 = 18.58 \pmod{61} = 3$ $6.00 = 18.39 \pmod{61} = 31$

 $VV = (18)\cos(m) = 18.148 \pmod{1} = 10$ VV = 22 = (0.01,0.01) = 3 VV = 22 = (0.01,0.01) = 3

7=32,3,7,15,313

31<年A => 与Q -31 = 10 15710 7~10 => 10-7=3 3=3 =7 3-3=0

$$v_2 = 0.143 \text{ (mod 61)} = 12$$

 $\varepsilon = (0.0.1.1.1) = 7 = H$

12 K34 = 31 - N - 13

31712 15712 7<12) 12-7=5 3 <5 3) 5-322 2=23) 2-2=0

$$U_3 = 0.85 \pmod{61} = 18.85 \pmod{61} = 5$$

$$E = (1, 1, 0, 0, 0) \Rightarrow 24 \Rightarrow y$$

$$\text{minaj deviptat} = WHy$$

12

$$16^{2}-253 = 256-253 = 36=3253 = 13^{2}-6^{2}$$

 $14^{2}-253 = 256-253 = 36=3253 = 13^{2}-6^{2}$
 $253 = 11\cdot23$

$$x_{23} = (10) \qquad x_{11} = (0,1)$$

$$23 = N(2+1) = 1 \times (-2) = 1$$

$$23 - (N) + N(-2) = 1$$

 $9 = e^{\frac{24}{3}} \pmod{9} = 170^{\frac{1}{6}} \pmod{23} = 3$ $0 = e^{\frac{24}{3}} \pmod{9} = 170^{\frac{1}{6}} \pmod{11} = 4$

 $X = Mpn + vgn \pmod{m} = 1.2344 + (-2)11.3 =$ = 92 - 66 = 26

y = upo-vgs (mod m) = 92+66=158 Sol: 26,-26, 158,-158

Sal: 26, -26, 158, -158

95=101111

158 = 100 11 110 (2)

18. Alice utilizeata un criptoristem Marker-Heleman pe un alfabet au 26 de caractere (estere A-Z), unitatific de mesori avand un caracter. Estuia publica a lui Alice este sirul 58,24,3,14,572, ian chest recreta este (b=23, m=61). Bob doreste sã-i trimita lui Alice mesoriel HFLLO. Briptati; mesoriel.

entrona et as todaget

w=28,24,3,14,573 b=23, om=61 > show secreta

t=HELLO

11100=F=H

C1= 1.8 + 1.24 + 1.3+ 0.14+ 0.57=35

E=4 = 00 100

£2=0.8+0.24+1.3+0.14.0.57=3

L= M = 01011

23= 1.8 + 1.24 + 0.3 + 1.24 + 0.57 = 46

0 = N4 = 0 MMO

24=0.8+1.24+1.3+1.14+0.57=41

Criptonia Aste: (35, 3, 46, 46, 41)