DOSOFTEI GEORGIANA-PARASCHEVA

TEMA 11

1. Profesorul de la disciplina oriptografie comunica cu voi si secretariat nota de la disciplina oriptografie folonind protocolul Thamir de secret splitting ou m=6 ni prag m=3. El alege corpel Z3, ni comunica urmele (1,13), (30,9), (2,18), (29,4), (3,25), (28,13). Determinado secretal.

$$f(n) = a_0 + \alpha_1 n + \alpha_2 x^2$$

$$f(x) = y_1 \frac{(n - n_2)(n - n_3)}{(n_1 - n_2)(n_1 - n_3)} + y_2 \frac{(n - n_1)(n - n_3)}{(n_2 - n_1)(n_2 - n_3)} + y_3 \frac{(n - n_1)(n - n_3)}{(n_3 - n_1)(n_3 - n_3)}$$

$$(1,13)$$

$$(30,9)$$

$$(2,18)$$

$$f(0) = (3 \cdot \frac{(0-30)(0-2)}{(1-30)(1-2)} + 9 \cdot \frac{(0-1)(0-2)}{(30-1)(30-2)} + 18 \cdot \frac{(0-1)(0-30)}{(2-1)(2-30)} = \frac{(0-1)(30-2)}{(2-1)(2-30)}$$

$$L_{1}(0) = \frac{-30 \cdot (-2)}{-29 \cdot (-1)} = \frac{60}{29} \mod 31 = 60 \cdot 29 \mod 31 =$$

$$= 60 \cdot 15 \mod 31 = 900 \mod 31 = 1$$

$$L_{2}(0) = \frac{-1 \cdot (-2)}{29 \cdot 28} = \frac{2}{812} \mod 31 = 2 \cdot 812 \mod 31 = 2 \cdot 26 \mod 31 =$$

$$= 52 \mod 31 = 21 \mod 31$$

$$L_{3}(0) = \frac{-1 \cdot (-30)}{1 \cdot (-28)} = \frac{30}{-28} \mod 31 = \frac{30}{3} \mod 31 = 10 \mod 31 =$$

 $f(0) = 13 \cdot 1 + 9 \cdot 21 + 18 \cdot 10 \mod 31 =$ = $13 + 189 + 180 \mod 31 = 382 \mod 31 = 10 \mod 31$

Georetul este 10.

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11-12/10-11 + 1 (12-11)

d(10) (00)

11-801/11-31

15 doc - 30 - 10)

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Lapon 19 to grant

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