```
lema 10 - Guptoghafie
 1. m = 343, p = 48.431, g = 443, x=7, a = 242 DSA
 a) cheia pub. : (p, q, g, L) = (48.731, 443, 5260, 3438)
    g = x 2 (mod p)
     = 1 + 173 ( mod 18431)
      = 7 110 (mod 48 +31)
   2 \5260
    1 = ga ( mod p)
      = 5260 245 ( mod 48431)
      = (3438)
 b) K = 427
     15 = ( 8 ( mod b)) ( mod 8)
     gk (mod p) = 526042+ (mod 48+31) = 2717
             T = 2717 (mod 443) = 59
              s = k (h(m) + a.r) (mod g)
                 = 427 (0+242.55) (mod 443)
                 = 427 - 14-278 (mod 443)
                   83 · 102 ( mod 448) = 8466 ( mod 448) = 49 ( mod 443)
                               =1 Jemmatina ( 59, 49)
  (427,443) = 1
    443 = 1. 427 + 16
    427 = 26-16 + 11
                            1 = 11 - 2.5 = 11 - 2(16 - 11) = 3.11 - 2.16
     16 = 1-11 + 5
                              = 3(427-26-16)-2-16= 3-427-80-16
      11 = 2.5 + 1 =>
                              = 3.427 - 80 (443 - 427)
                              = (83)-427 + (-80)-443
        TI < 9-1 (2) 39 < 442 (A)
Verif.
                  L-1 49 2442 (A)
         r= (g5-12(m) (mod g) _ 1x5-1 (mod g) (modp)) (mod g)
                (5260 49-1 (mod 443) 3438 59-49-1 (mod 443)) (mod 443)
```