

•  $h = c^{\frac{p+1}{4}} \pmod{p} = 289$   $= 289^{\frac{p+1}{4}} \pmod{23} = 289^{\frac{p+1}{4}} \pmod{23} = 13^{\frac{p+1}{4}} \pmod{23}$   $= (13^{\frac{p+1}{4}})^{\frac{p+1}{4}} \pmod{23} = 289^{\frac{p+1}{4}} \pmod{23} = 8^{\frac{p+1}{4}} \pmod{23}$   $= (13^{\frac{p+1}{4}})^{\frac{p+1}{4}} \pmod{23} = 8^{\frac{p+1}{4}} \pmod{23} = 8^{\frac{p+1}{4}} \pmod{23}$  $= 64.8 \pmod{23} = -40 \pmod{23} = 6$   $= 64.8 \pmod{23} = 289 \pmod{31} = 6$   $= 64.8 \pmod{23} = 289 \pmod{31} = 6$  $= 10^{8} (\text{mod } 31) = (10^{4})^{2} (\text{mod } 31) = 18^{2} (\text{mod } 31)$ = 324 (mod 31) = 14 · X = ups + vgr (mod m) = -4.23.14 + 3.31.6 (mod 7/3  $= -1288 + 558 \pmod{7/3} = 696$  $-x = -696 \pmod{7.3} = 17$ · y = ups - vgr (mod n) = -1288-558 (mod 7/3) =-1846 (mod 713) =293 -y= -293 (mod 713) = 420 thoms. In baza 2 696(10) = 101011(000 (2) 17(10) = 1000 1(2) 293(10) = 100100101(2) 420(10) = 110100100(2)