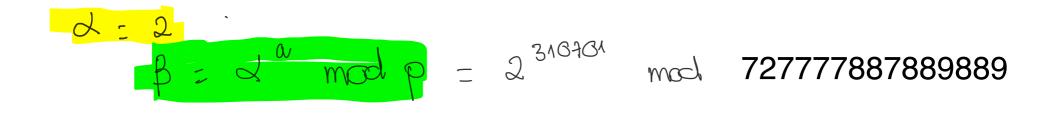
P = 727777887889889

x= 11016201420137

к = 173422142539

a= 310701

 $P-1=727777887889888 = 2^{5} * 11 * 293 * 7056 487433$



242049547420770

$$2K^{\prime}$$
 = $(d^{k}, x \cdot \beta^{k})$ mod p
= $(d^{k} mod p, (x mod p \cdot \beta^{k} mod p)$ mod $p)$

(711295250732203, 267367881434934)

$$\frac{d \kappa(q)}{d \kappa(q)} = \frac{1016201420137}{2} = \frac{101620142012012}{2}$$