C

b_i

k

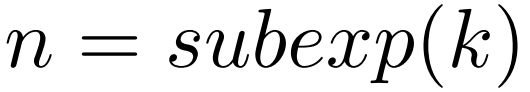
n

q

2

$$n = exp(O(k))$$

$q = 3$



$$n \geq \Omega(k^2)$$

3

$$n \geq \tilde{\Omega}(k^3)$$

$b \in 0,1^k \rightarrow x \in 0,1^n$

x

$\hat{b_i} \in 0, 1$

(q, δ, ϵ)

$$\triangle(x, Enc(b)) \leq \delta n$$

$$Dec^x(i) = b_i$$

$$\geq \frac{1}{2} + \epsilon$$

i