

2048 L / 0 / 50

$$P = Q \qquad P = 3 \qquad q = 11$$

$$key \qquad N = PQ = 3 \times 11 = 33$$

$$(P-1) (Q-1) = 20$$

$$Q = 3$$

$$Q = 1 \qquad mod \qquad (P-1) (Q-1)$$

$$Q = 7$$

$$Q = 7$$

$$Q = (N,Q) = (33,3)$$

$$Q = (N,Q) = 7$$

$$Q = 7$$

$$Q = 8 \qquad mod \qquad N = 8 \qquad mod \qquad 33$$

$$Q = 11$$

 $P = Cd \mod N = 17 \mod 33$ $N = \frac{5024}{2048}$ 2 / 2 / 500 -> Prime

5/2 / 500 -> 2 / 500 140 150 0 -10

= M mod N $\begin{array}{cccc}
4 & mod & 3 = 1 \\
7 & mod & 3 = 1
\end{array}$ [2mod 3 = [N = 20 48 hits M => 2 4 5 by tes

Aybrid Crypto: 1) RSA exchange

Symmetric Key (2) Qx Change data With symmetric

Confidentiality: C=E(MsKpub)

M=D(CsKprivate) Integrity: = = = (M) Kprivate) M= Im Alice; I give Bob \$103 MSign = E (M > Kprivate) M = D (Msg Rpub)

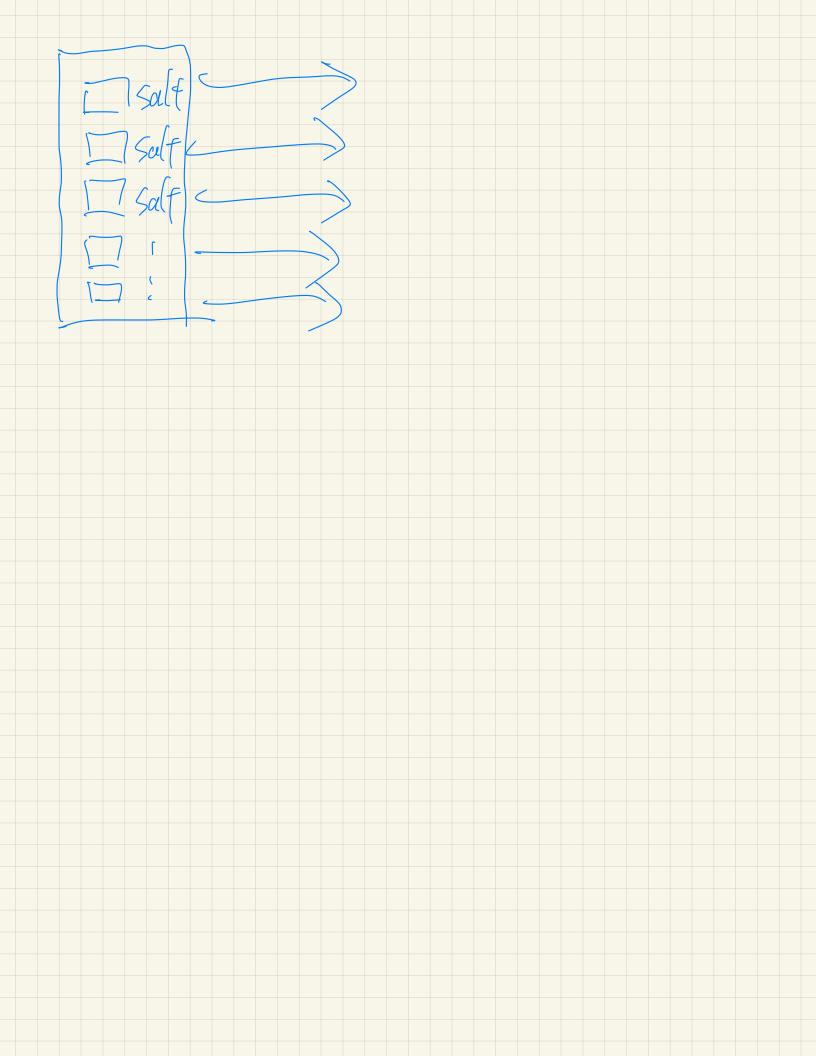
Note of the second of the

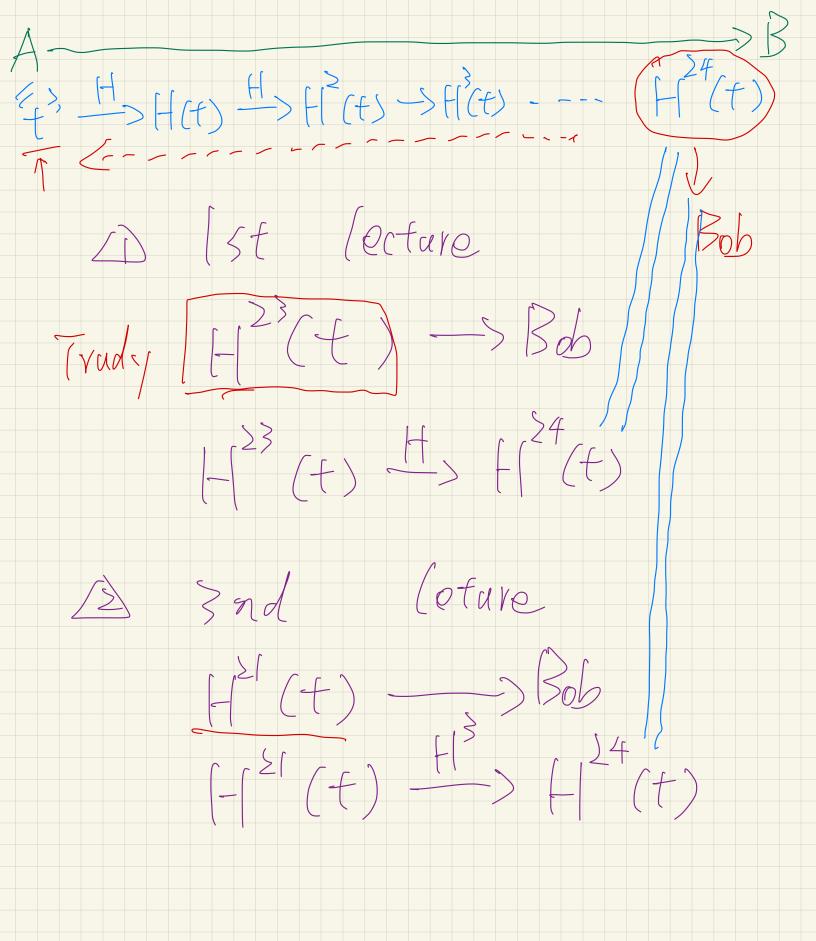
A O Key Cren 2 Kpublic C Alice CA: Certiticate Authority 10 Rey gen () [Kpub of Alice sign by CAS (3) Bob => [Epub of Alice (AL) Of (AL) OS ship OS Ship browser Alico O Wifi CA The Epub

M = M MEt (M) Sign (pub M_1 M_2 (collision)

Miller (Mill) Jeign
Miller (Mill) Jeign
Miller (Mill) Jeign

Amazon O pwd (USPr, PWd) 2 encrypt Ve vertable in the second of Evainbou table (Salts A Galt II) was





email: Spam f-free -> (05t/y WOYCE = 32 bits = 32 ten leading
Zero

(6) mp litertion 70 - time X (content (