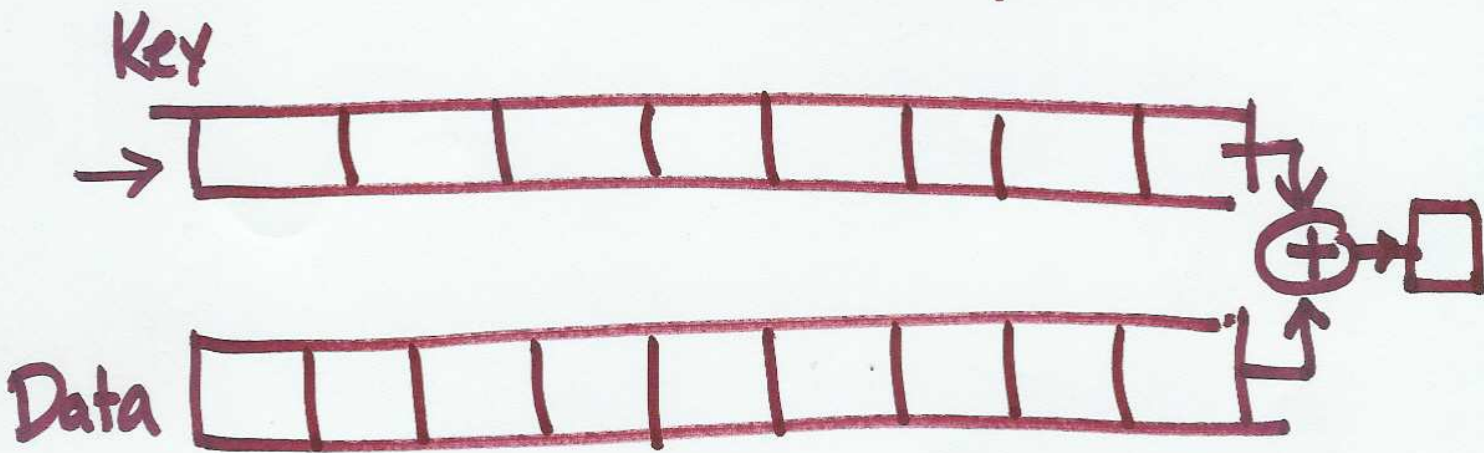


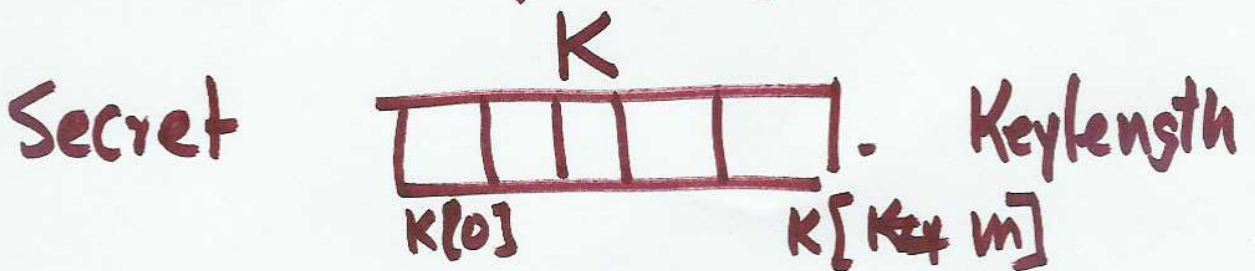
2/8/07

RC 4

Stream cipher



How do you generate K?



Stream Generation

$i, j = 0$

while (true)

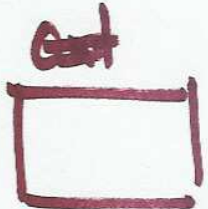
$i = (i + 1) \bmod 256$

$j = (j + s[i]) \bmod 256$

swap ($s[i], s[j]$)

$t = (s[i] + s[j]) \bmod 256$

$k = s[t]$

Data byte \oplus K \longrightarrow 
Cipher byte

802.11 i

IEEE

Wi-Fi Alliance

802.11

Wi-Fi Product

No. Encrypt, WEP

No Encrypt + WEP
+ Modified WEP

