6.033 Lecture 22

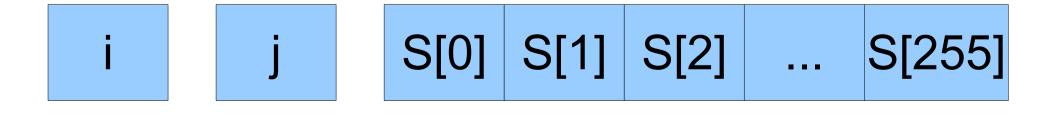
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RC4

Initialization

```
S[0..255] =
    permutation of 0..255
    (based on key)
i = 0
j = 0
```

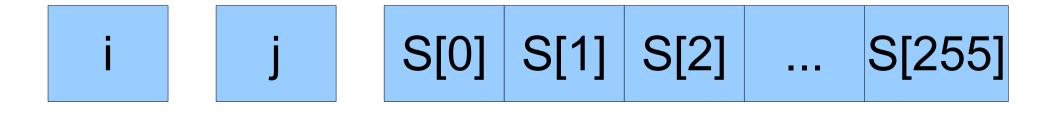


RC4

Initialization

S[0..255] =
 permutation of 0..255
 (based on key)
i = 0
j = 0

Generate pseudo-random byte



RSA

Initialization

- p = random large prime
- q = random large prime

N = p * q



RSA

Initialization

p = random large prime
q = random large prime



RSA

Initialization

p = random large prime
q = random large prime

Encrypt(m, N, e) \rightarrow c:

$$c = m^{e} \mod N$$

Decrypt(c, N, d) \rightarrow m:

$$m = c^d \mod N$$

