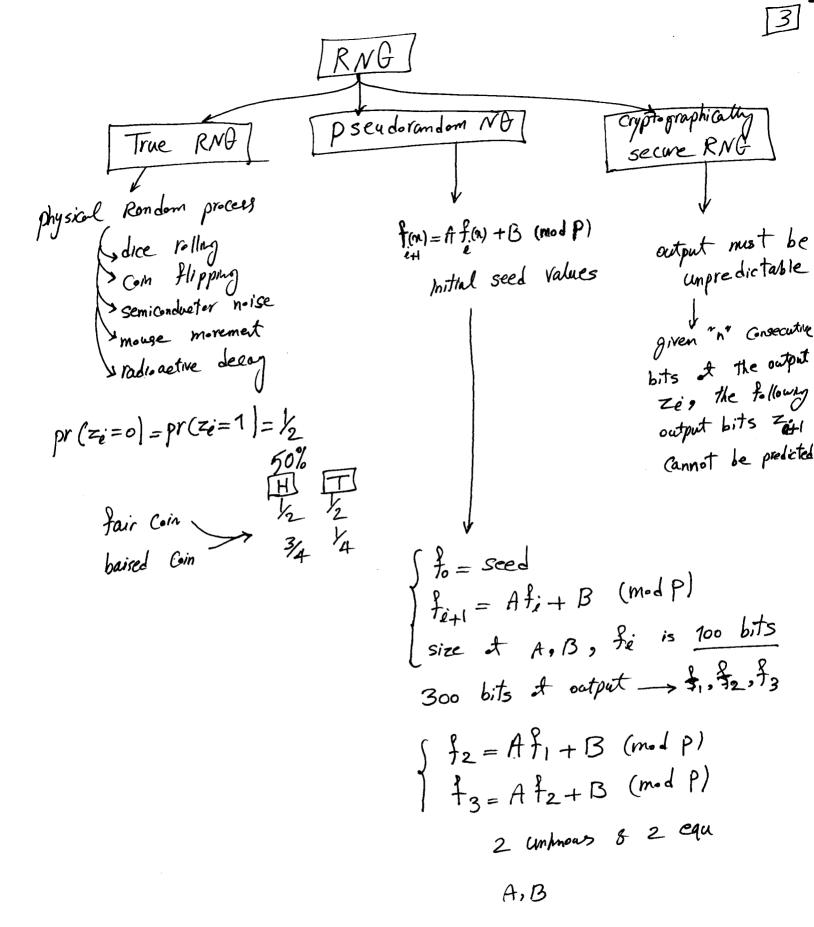


Z

ø

XOR



Note: one-way functions y = f(n)hard P(m) = 3 (mod 17) D= 11~16 } $\eta \rightarrow 1$ 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 $y \rightarrow 3$ 9 10 13 5 15 11 16 14 8 7 4 12 2 6 1 $g=11 \longrightarrow 3^{11} \pmod{17} \Rightarrow g=7$ y=7 ~~~ x=? # One-Time pad (OTP) 7 exi (mi) = mi + ki > XOR furetion dki (ci) = ci + ki C, C1, C2 ove know to Co = Mo & Ko the adversory
2 unknows 8 1 equ $C_1 = m_1 \oplus k_1$ C2 = m2 € k2 for each bit

