

$$f(x) = a_0 + a_1 x \pmod{q}$$

$$f(0) = 0 + 5 \cdot 0 \pmod{7} \quad (1, 2)$$

$$f(1) = 0 + 5 \cdot 1 \pmod{7} \quad (2, 7)$$

$$f(2) = 0 + 5 \cdot 2 \pmod{7} \quad (1, 3)$$

$$f(3) = 0 + 5 \cdot 3 \pmod{7} \quad (1, 0)$$

$$f(4) = 0 + 5 \cdot 4 \pmod{7} \quad (1, 5)$$

$$f(5) = 0 + 5 \cdot 5 \pmod{7} \quad (1, 6)$$

$$f(6) = 0 + 5 \cdot 6 \pmod{7} \quad (1, 1)$$

$$f(7) = 0 + 5 \cdot 7 \pmod{7} \quad (1, 4)$$

$$f(8) = 0 + 5 \cdot 8 \pmod{7} \quad (1, 3)$$

$$f(9) = 0 + 5 \cdot 9 \pmod{7} \quad (1, 0)$$

$$f(10) = 0 + 5 \cdot 10 \pmod{7} \quad (1, 5)$$

Information Theoretically Secure

Perfectly Secure

Unconditionally Secure

$$y = ax + b \pmod{q}$$

$$f(x) = a_0 + a_1 x \pmod{q}$$

$$f(0) = a_0 + a_1 \cdot 0 \pmod{11}$$

$$f(1) = a_0 + a_1 \cdot 1 \pmod{11}$$

$$f(2) = a_0 + a_1 \cdot 2 \pmod{11}$$

$$f(3) = a_0 + a_1 \cdot 3 \pmod{11}$$

$$f(4) = a_0 + a_1 \cdot 4 \pmod{11}$$

$$f(5) = a_0 + a_1 \cdot 5 \pmod{11}$$

$$f(6) = a_0 + a_1 \cdot 6 \pmod{11}$$

$$f(7) = a_0 + a_1 \cdot 7 \pmod{11}$$

$$f(8) = a_0 + a_1 \cdot 8 \pmod{11}$$

$$f(9) = a_0 + a_1 \cdot 9 \pmod{11}$$

$$f(10) = a_0 + a_1 \cdot 10 \pmod{11}$$

$$(x_1, y_1)$$

$$f(x) =$$

$$=$$

$$x \Rightarrow$$

$$f(0) =$$

$$\dots$$