Introducción a Python – Sesión 1

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Modular Math

Definition x $\pmod{n}$

- remainder of $\frac{x}{n}$

$0 \bmod 4 = 0$	$4 \bmod 4 = 0$	$8 \bmod 4 = 0$
$1 \bmod 4 = 1$	$5 \bmod 4 = 1$	$9 \bmod 4 = 1$
$2 \bmod 4 = 2$	$6 \bmod 4 = 2$	$10 \bmod 4 = 2$
$3 \bmod 4 = 3$	$7 \bmod 4 = 3$	$11 \bmod 4 = 3$

Modular Math

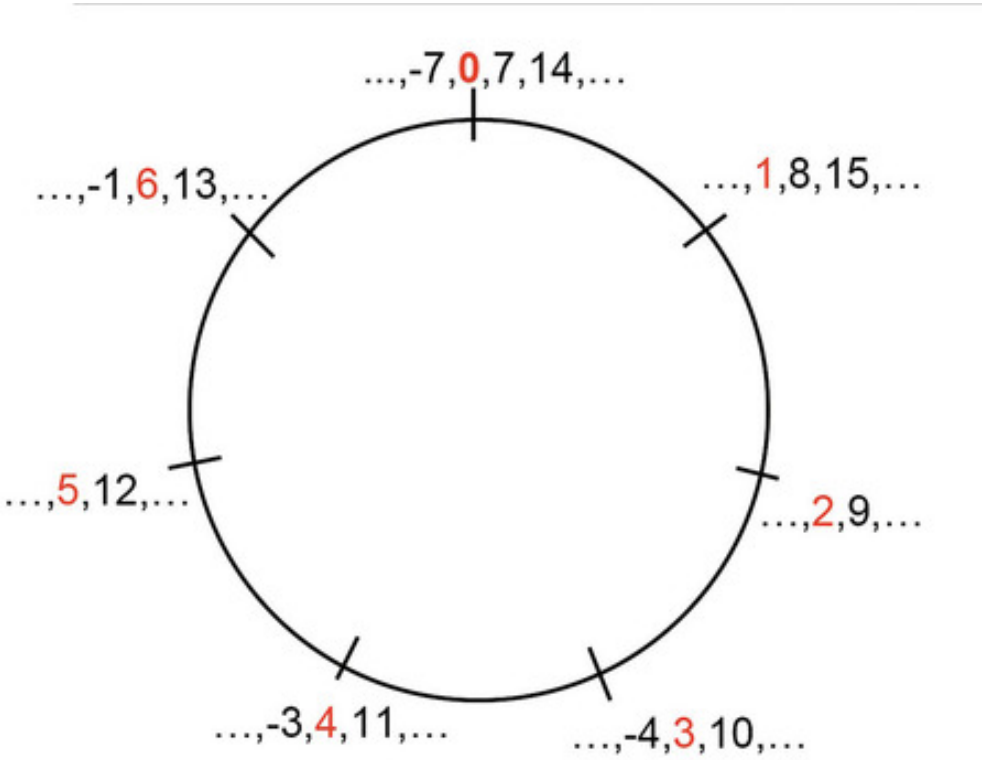

Figura 1: Modular Clock

Modular Math

Modular equivalence: $x \equiv y \pmod{n}$

$$1 \equiv 5 (\mathrm{mod} 4)$$

$$x^2 \equiv y \bmod 4$$

$$(m^e)^d \equiv m (\mathrm{mod}\, n)$$