

Modulo !!!

$$15 \% 6 = 3$$

$$\frac{15}{6} = 2 \overset{\text{modulus}}{\underset{3}{\frac{3}{6}}}$$

$$15 \% 14 = 1$$

$$15 \% 15 = 0$$

$$15 \% 16 = 15$$

$$\overset{\text{max}}{\underset{16}{15}}$$

$$\frac{15}{15} = 1 \quad \frac{0}{15} \quad ;)$$

while  $b > 0$

$a, b = b, a \% b$

return  $a$

| $a$ | $b$ | $r = a \% b$       |
|-----|-----|--------------------|
| 24  | 18  | $r = 24 \% 18 = 6$ |
| 18  | 6   | $r = 18 \% 6 = 0$  |
| 6   | 0   |                    |

↑ NUD

| $a$ | $b$ | $r$                  |
|-----|-----|----------------------|
| 100 | 15  | $r = 100 \% 15 = 10$ |
| 15  | 10  | $r = 15 \% 10 = 5$   |
| 10  | 5   | $r = 10 \% 5 = 0$    |
| 5   | 0   |                      |

↑ NUD

| $a$ | $b$ | $r$                |
|-----|-----|--------------------|
| 72  | 24  | $r = 72 \% 24 = 0$ |
| 24  | 0   |                    |

↑ NUD