

4 2 8 2 4 ←

$10^4$   $10^3$   $10^2$   $10^1$   $10^0$

$$4 \cdot 10^4 + 2 \cdot 10^3 + 8 \cdot 10^2 + 2 \cdot 10^1 + 4 \cdot 10^0$$

$$10010 = 18$$

$$\begin{array}{ccccc} 1 & 0 & 0 & 1 & 0 \\ 2^4 & 2^3 & 2^2 & 2^1 & 2^0 \end{array}$$

$$1 \cdot 2^4 + 0 \cdot 2^3 + 0 \cdot 2^2 + 1 \cdot 2^1 + 0 \cdot 2^0$$

$$16 + 0 + 0 + 2 + 0 = 18$$

$$1 \ 0 \ 1 \ 0 \ 1 \ 1_{(2)} = 43$$
$$2^5 \ 2^4 \ 2^3 \ 2^2 \ 2^1 \ 2^0$$

$$1 \cdot 2^5 + 0 \cdot 2^4 + 1 \cdot 2^3 + 0 \cdot 2^2 + 1 \cdot 2^1 + 1 \cdot 2^0$$

$$32 + 0 + 8 + 0 + 2 + 1 = 43$$

$$39 = 100111_2$$

$$\begin{array}{r} 39 \overline{) 2} \\ 19 \quad 19 \\ \underline{1} \end{array}$$

$$\begin{array}{r} 19 \overline{) 2} \\ \underline{1} \quad 9 \end{array}$$

$$\begin{array}{r} 9 \overline{) 2} \\ \underline{1} \quad 4 \end{array}$$

$$\begin{array}{r} 4 \overline{) 2} \\ \underline{0} \quad 2 \end{array}$$

$$\begin{array}{r} 2 \overline{) 2} \\ \underline{0} \quad 1 \end{array}$$