

$$A = 8 \quad B = 16$$

$$\begin{aligned} A &= A \oplus B \\ B &= A \oplus B \\ A &= A \oplus B \end{aligned}$$

$$A = \begin{array}{r} 00001000 \\ 00010000 \\ \hline 00011000 \end{array} \text{ XOR}$$

$$B = \begin{array}{r} 00011000 \\ 00010000 \\ \hline 00001000 \end{array} \text{ XOR} = 8$$

$$A = \begin{array}{r} 00011000 \\ 00001000 \\ \hline 00010000 \end{array} = 16$$

$$\text{XOR} \begin{array}{|c|c|c|} \hline 1 & 1 & 0 \\ \hline 0 & 0 & 1 \\ \hline 0 & 0 & 0 \\ \hline \end{array}$$

$$\begin{array}{ccccccc} 0 & 0 & 0 & 0 & 1 & 0 & 0 & 0 \\ 2^7 & 2^6 & 2^5 & 2^4 & 2^3 & 2^2 & 2^1 & 2^0 \end{array}$$

$$8 = 2^3$$

$$00 \quad 0 \quad 1 \quad 0 \quad 0 \quad 0 \quad 0$$

$$16 = 2^4$$

$$00 \quad 0 \quad 1 \quad 0 \quad 0 \quad 0 \quad 1$$

$$17 = 2^4 + 2^0$$

$$8 \gg 2$$

$$00001000 \quad 00000010 \quad ?$$

$$8 \ll 2$$

$$00100000$$

$$1 \ll n$$