

SSD

SDU

⇒ Theory:

0 Decimal number system:

↓  
 $(526)_{10}$

0 Binary number system:

$(1010101)_2$

$$\begin{array}{ccc} \downarrow & \downarrow & \downarrow \\ 5 & 2 & 6 \\ \downarrow & \downarrow & \downarrow \\ 5 \times 10^2 = 500 & 2 \times 10^1 = 20 & 6 \times 10^0 = 6 \end{array} \quad \underline{526} = \underline{500 + 20 + 6}$$

Identity:

$$x^0 = 1$$

$$x^1 = x$$

$$x^n = x \times x \times x \dots n \text{ times}$$