

(2).

$$12345678_{16} \rightarrow 10$$

$$\begin{aligned} & 1 \cdot 16^7 + 2 \cdot 16^6 + 3 \cdot 16^5 + 4 \cdot 16^4 + 5 \cdot 16^3 + 6 \cdot 16^2 + \\ & + 7 \cdot 16^1 + 8 = 268435456 + 2 \cdot 16777216 + \\ & + 3 \cdot 1048576 + 4 \cdot 65536 + 5 \cdot 4096 + 6 \cdot 256 + \\ & + 120 = 305419896_{10} \end{aligned}$$

$$10000000_{16} \rightarrow 10$$

$$10000000_{16} = 1 \cdot 16^6 = 16777216_{10}$$