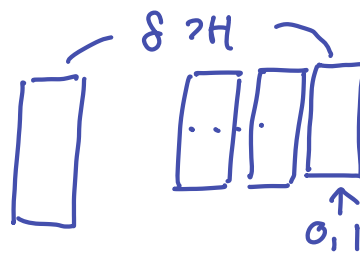
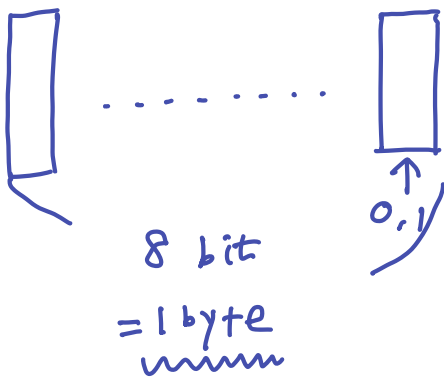


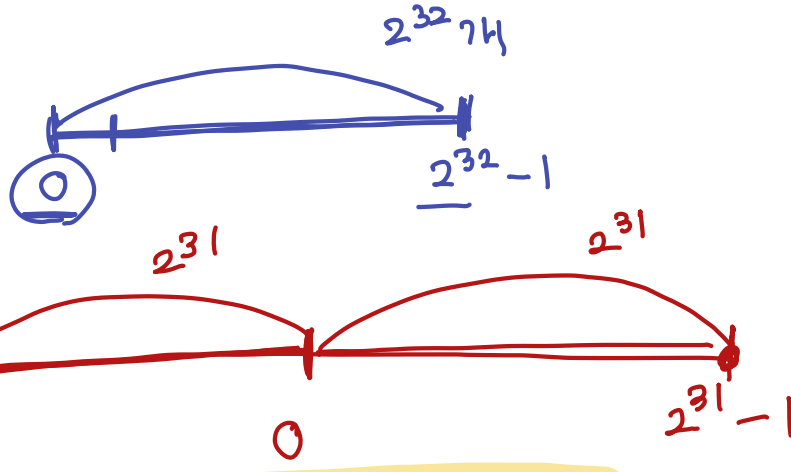
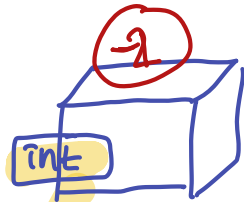
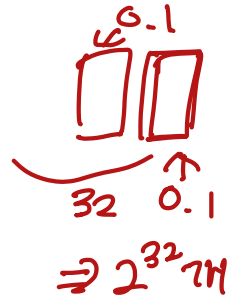
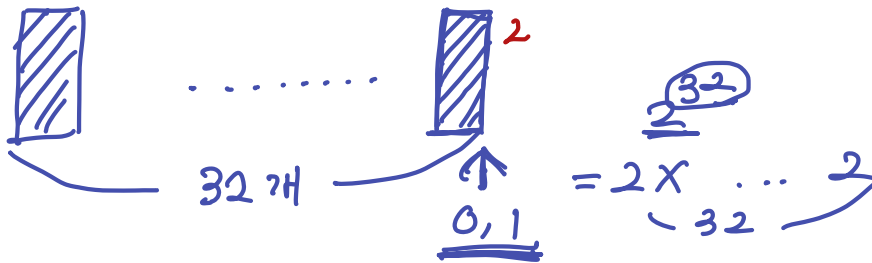
bit (비트)



$$1 \text{ byte} = 8 \text{ bit}$$

$$\underbrace{2 \times 2 \times \dots \times 2}_{8 \text{ byte}} = 2^8 \text{ byte}$$

int (4 bytes \Rightarrow 32 bit) \Rightarrow 2^{32} byte



$$-2^{31} \leq \bigcirc < 2^{31}$$

$$\frac{2^{31}}{2} = \frac{(-2^{31})}{2}$$

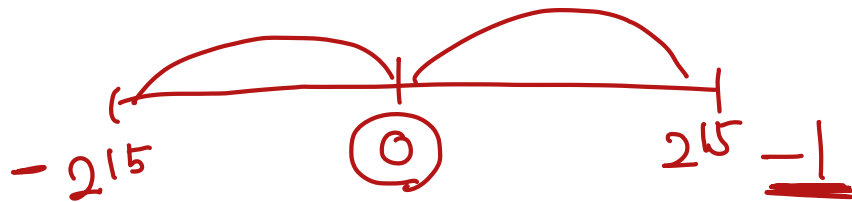
$$= \frac{2 \cdot 2^{31}}{2}$$

$$= 2^{32} \text{ byte}$$

underflow
(언더플로우)

overflow
(오버플로우)

short \Rightarrow 2 bytes \rightarrow 16 bit \Rightarrow 2^{16} 개
 1 byte = 8 bit

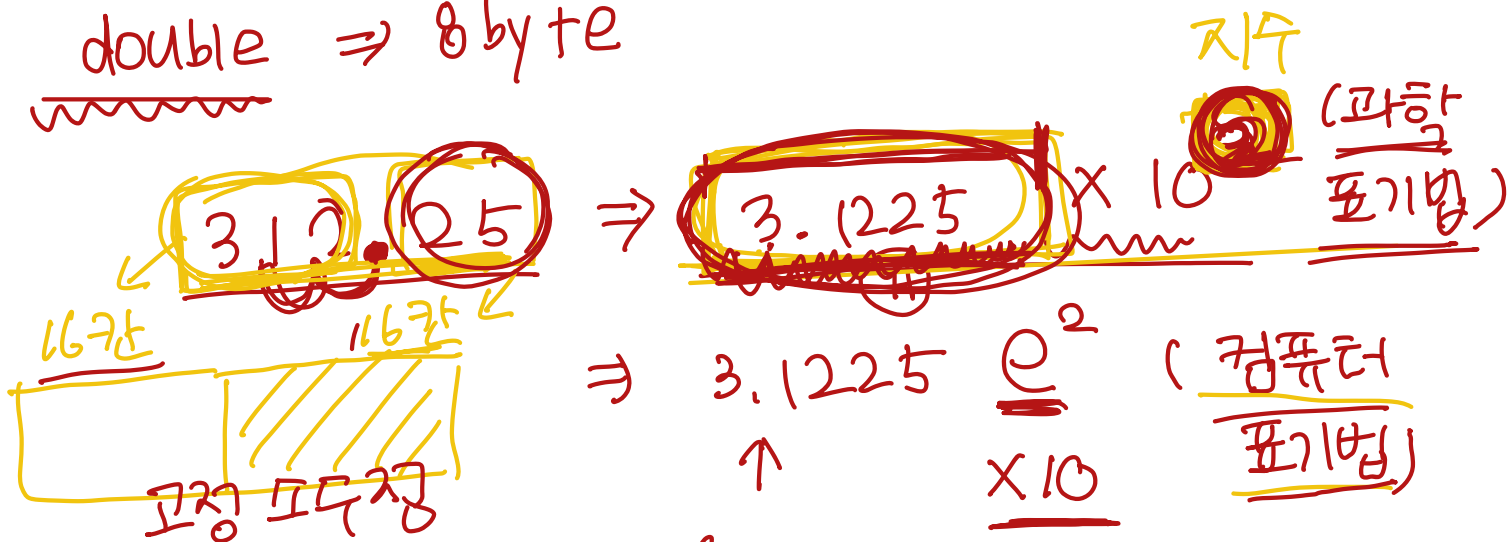


byte \rightarrow 1 byte \rightarrow 8 bit \rightarrow 2^8 개

$-2^7 \leq \text{ } < 2^7$
 $\underline{-128} \leq \text{ } < \underline{128}$

float \Rightarrow 4 byte \Rightarrow 32 bit

double \Rightarrow 8 byte



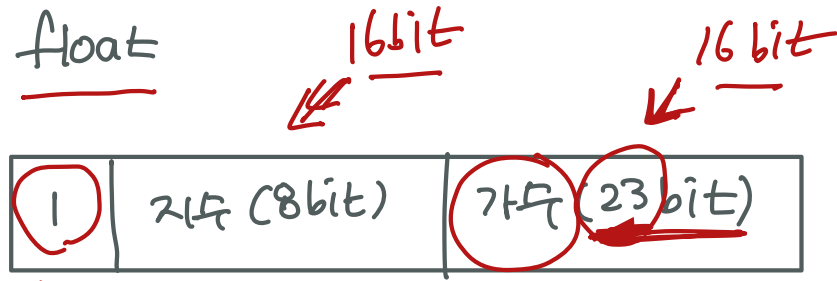
floating point

부동 소수점

② 2567 8
 1111

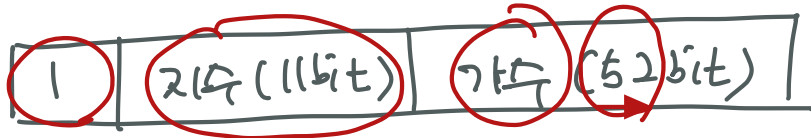


(4) float



부호 (sign bit)

(8) double



부호 (sign bit)

