

$$\boxed{131} \rightarrow \text{result} = \underline{\underline{-125}} (A + B).$$

-128 -127 -126 -125 -124 -2 -1 0 1 2 125 126 127
 \uparrow \uparrow \uparrow \uparrow
 128 129 130 131

Signed char

char num = 500; \rightarrow $\xrightarrow{-128 \text{ to } +127}$
 ("%d", num);
-12

Formula for value out or range

$$\boxed{n - 2^{8..}}$$

$$500 - 256$$

$$\underline{\underline{244}}$$

244 = Out of range

$$244 - 256$$

$$\underline{\underline{-12}}$$

-12 is in range

Unsigned char u_ch = 500;

// unsigned char range = 0 to 255

$$n = 2^8$$

$$500 - 256$$

$$\underline{\underline{244}}$$