unsigned char in C

$$B2U_8(\begin{array}{|c|c|c|c|c|c|c|c|}\hline 1 & 0 & 1 & 0 & 1 & 0 & 0 & 0 \\\hline\end{array})$$

MSB x_7 x_6 x_5 x_4 x_3 x_2 x_1 x_0 LSB

example byte

$$= 2^7 + 2^5 + 2^3$$

$$= 168$$