

$$\begin{array}{r} 111 \\ + 1101 \\ 1011 \\ \hline 11000 \end{array}$$

$$\begin{array}{r} 11111 \\ + 1001100 \\ 1110110 \\ \hline 10000111 \end{array}$$

$$\begin{array}{r} 1111 \\ + 01011100 \\ 00111011 \\ \hline 10010111 \end{array}$$

$$\begin{array}{r} 0 \\ 2- \quad 1010 \\ 0110 \\ \hline 0100 \end{array}$$

$$3- \quad 1 \times 2^4 + 0 \times 2^3 + 0 \times 2^2 + 1 \times 2^1 + 1 \times 2^0 = 16 + 0 + 0 + 2 + 1 = 19$$

$$\begin{array}{r} 11 \\ 4- \quad 1110 \\ + 0111 \\ \hline 10101 \end{array}$$

$$\begin{array}{r} 0 \\ 5 \quad 1001 \\ + 0111 \\ \hline 0010 \end{array}$$

$$6- \quad 2512$$

$$12 \mid 2$$

$$1 \mid 6 \mid 2$$

$$1 \mid 3 \mid 2$$

$$0 \mid 1 \mid 2$$

$$0 \mid 1$$

$$1$$

$$\rightarrow 11001$$

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S T Q Q S S D

$$\begin{array}{r} 7 - \\ + 101 \\ \hline 110 \\ \hline 1011 \end{array}$$

$$\begin{array}{r} + 1011 \\ \hline 0100 \\ \hline 1111 \end{array}$$

$$\begin{array}{r} 8 - 11000 \\ \hline 01011 \\ \hline 01101 \end{array}$$

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$$1 \times 2^5 + 0 \times 2^4 + 1 \times 2^3 + 1 \times 2^2 + 1 \times 2^0 = 32 + 0 + 8 + 4 + 0 + 1 = 45_{10}$$

$$\begin{array}{r} 10 - \\ + 111 \\ \hline 101 \\ \hline 1100 \end{array}$$

$$1100_2$$

$$1 \times 2^3 + 1 \times 2^2 + 0 \times 2^1 + 0 \times 2^0 = 8 + 4 + 0 + 0 = 12_{10}$$