

2進法の四則計算

加法・乗法

+	0 ₍₂₎	1 ₍₂₎
0 ₍₂₎	0 ₍₂₎	1 ₍₂₎
1 ₍₂₎	1 ₍₂₎	10 ₍₂₎

+	0 ₍₂₎	1 ₍₂₎
0 ₍₂₎	0 ₍₂₎	0 ₍₂₎
1 ₍₂₎	0 ₍₂₎	1 ₍₂₎

減法

$$0_{(2)} - 0_{(2)} = 0_{(2)}$$

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$$10_{(2)} - 1_{(2)} = 1_{(2)}$$

(例)

$$\begin{array}{r} 111 \\ 10101 \\ + 111 \\ \hline 11100 \end{array}$$

$$\begin{array}{r} 21 \\ + 7 \\ \hline 28 \end{array}$$

$$\begin{array}{r} 02 \\ 101 \\ - 11 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 5 \\ - 3 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 12 \\ 10101 \\ - 111 \\ \hline 1110 \end{array}$$

$$\begin{array}{r} 21 \\ - 7 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 10101 \\ \times 101 \\ \hline 10101 \\ 0 \\ \hline 10101 \\ \hline 1101001 \end{array}$$

$$\begin{array}{r} 21 \\ \times 5 \\ \hline 105 \end{array}$$

$$\begin{array}{r} 1001 \\ 101 \overline{) 101101} \\ \underline{101} \\ 101 \\ \underline{101} \\ 0 \end{array}$$

$$\begin{array}{r} 9 \\ 5 \overline{) 45} \\ \underline{45} \\ 0 \end{array}$$

$$\begin{array}{r} 100101 \\ 1001 \overline{) 101001101} \\ \underline{1001} \\ 1011 \\ \underline{1001} \\ 1001 \\ \underline{1001} \\ 0 \end{array}$$

$$\begin{array}{r} 37 \\ 9 \overline{) 333} \\ \underline{27} \\ 63 \\ \underline{63} \\ 0 \end{array}$$