

Calculation with binary integers

HHU-Swarm

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1. Subtraktion

$$\begin{array}{r|rrrr} & 0 & 1 & 1 & 1 \\ - & 0 & 1 & 1 & 0 \\ \hline & 0 & 0 & 0 & 1 \end{array}$$

2.

$$\begin{array}{r|rrrrrrrr|l} & 0 & 0 & 0 & 0 & 0 & 1 & 1 & 1 & \Rightarrow 7 \\ \text{Overflow-Flag: 0} & + & 0 & 0 & 0 & 0 & 0 & 0 & 1 & 1 & \Rightarrow 3 \\ \text{Carry-Flag: 0} & & 0 & 0 & 0 & 0 & 1 & 1 & 1 & 0 & \\ & & 0 & 0 & 0 & 0 & 1 & 0 & 1 & 0 & \Rightarrow 10 \end{array}$$