



Informatik

Übungsstunde

1. Perform the following steps:
 - 1.1 Convert the integer numbers $a = 4$ and $b = 7$ into their binary representation.
 - 1.2 Add the binary representations.
 - 1.3 Convert the result into decimal.
2. Evaluate the following expressions:
 - 2.1 $5 < 4 < 1$
 - 2.2 `true > false`

Compute the binary expansions of the following decimal numbers.

1. 0.25

2. 11.1

State the following numbers in $F^*(2, 4, -2, 2)$:

1. the largest number;
2. the smallest number;
3. the smallest non-negative number.

Compute how many numbers are in the set $F^*(2, 4, -2, 2)$.

Add $1.001 \cdot 2^{-1}$ (i.e. 0.5625) and $1.111 \cdot 2^{-2}$ (i.e. 0.46875) in $F^*(2, 4, -2, 2)$.