

Digital teknologi



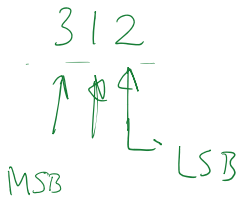
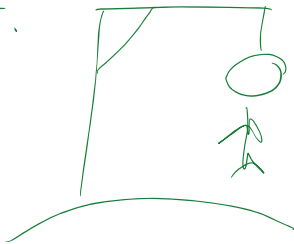
0, 1 Binær 2'

0, 1, ..., 9 10' tallssystemet

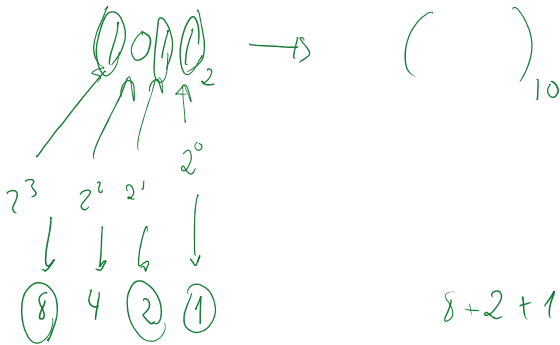
0, 1, ..., 6 7' tallssystemet

0, 1, ..., 9, A, B 12' tallssystemet

~~F~~ / 16 tall



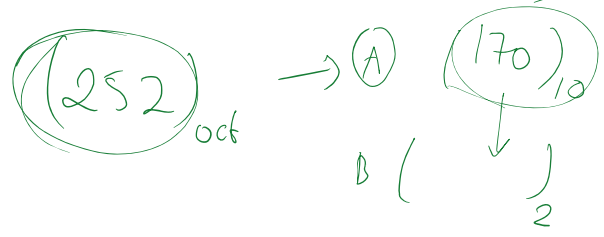
$$312 \Rightarrow 3 \cdot 10^2 + 1 \cdot 10^1 + 2 \cdot 10^0$$



— — — — — 2^3 2^2 2^1 2^0

1624	512	256	128	64	32	16	8	4	2	1
16384	8192	4096	2048							

2 Bin
 8 oct
 16 Hex (Hexs)



10101010
 →

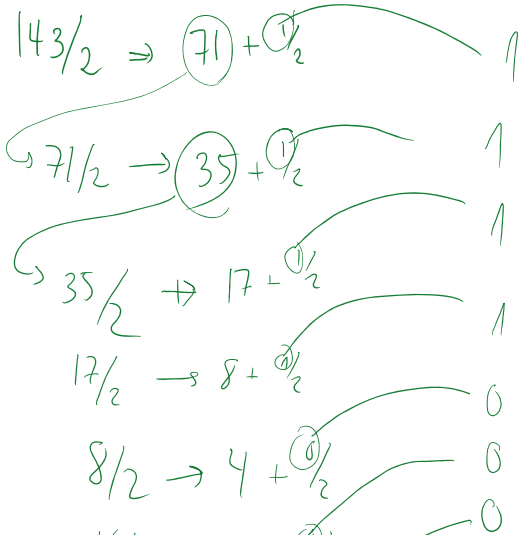
2 5 (2)

010 101 010

Bit
 1 → 2 vert
 2 → 4
 3 → 8

1₁⁰
 00
 01
 10
 11

(143)_{dec} = ()₂

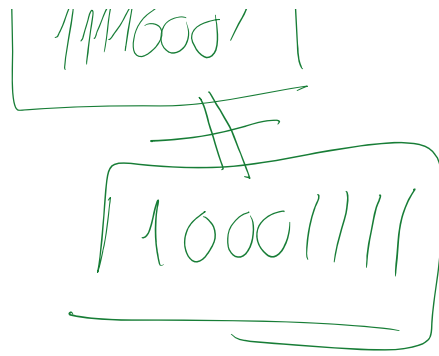


LSB

11110001

$$\begin{aligned}
 8/2 &\rightarrow 4 + 0/2 && 0 \\
 4/2 &\rightarrow 2 + 0/2 && 0 \\
 2/2 &\rightarrow 1 + 0/2 && 1 \\
 1/2 &\rightarrow 0 + 1/2 && 0
 \end{aligned}$$

MSB



AND

"."

$a \cdot b$

ab

OR

" + "

$a + b$

$a + b$

NOT

" \bar{a} "

" a' "

\bar{a}

a'

AND

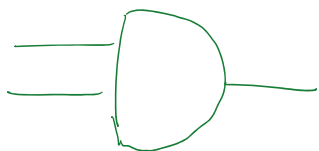
	a	b	F
0	0	0	0
1	0	1	0
2	1	0	0
3	1	1	1

OR

ab	F
00	0
01	1
10	1
11	1

NOT

a	F
0	1
1	0



Sant eg usant ~~sant~~

$$1 \cdot 0 = 0$$