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(1)

0000	0
0001	1
0010	2
0011	
0100	
0101	
0110	
0111	7
1000	-8
1001	-7
1010	-6
1011	-5
1100	-4
1101	-3
1110	-2
1111	-1

~~+7~~
~~+1~~

+7

+1

-8

386

04

011
1011 -5

0011 +1

1110 -2

01000

1111
0101 +5

1011 -5

0000

1
4
7
11

0101

1010

1111

0001

0000

44

57

9

0001

1111

0000

1110 -2

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(2)

2's Complement

ADD

010111 - -1

00 - -6

DATA
TYPES

1010 - 6

1011 - 5

0101 + 5



0

382

46

28

1011 - 5

0101 + 5

0

65,536

0101

1010

0000

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LCN-627

③

$$\begin{array}{r} +37 \\ -2 \\ \hline +35 \end{array}$$

$$\begin{array}{r} 0100101 \\ \hline 0110011 \end{array}$$

$$\begin{array}{r} 32 \\ 4 \\ 1 \\ \hline 37 \end{array}$$

$$\begin{array}{r} 2 \\ 4 \\ 8 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 0100101 \\ +37 \\ \hline 1. \\ 2. \\ 16. \end{array}$$

$$0100101$$

$$+37$$

$$+14$$

$$+51$$

$$\begin{array}{r} 32 \\ \hline 51 \end{array}$$

$$1111 \rightarrow 10$$

$$10.00$$

$$000010 +2$$

$$00010.00$$

$$11101$$

$$\begin{array}{r} 111112 \end{array}$$

$$111116$$

$$1110$$

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(4)

$$\begin{array}{r} 010010.1 \quad +37 \\ \hline 111110 \quad -2 \\ \hline 0100011 \quad +25 \end{array}$$

←

$\frac{1}{2}$
 $\frac{32}{32}$
 35

OVERFLOW

ASCII

SIGN-
EXTEND

6.023×10^{23}

FLOATING POINT