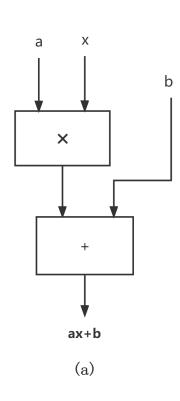
ICS HomeWork-1

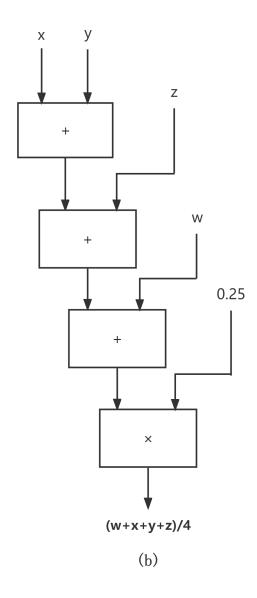
PB20000113 孔浩宇

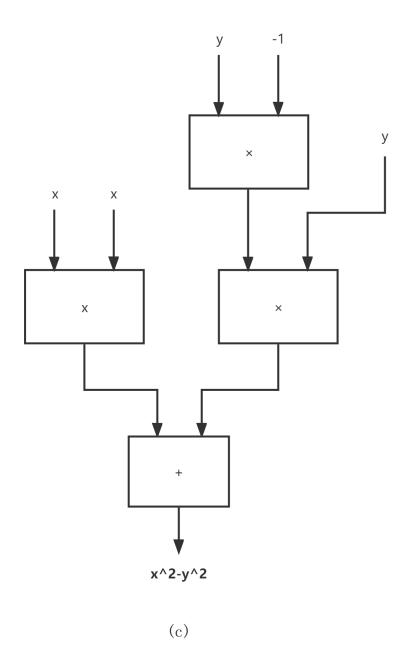
October 3, 2022

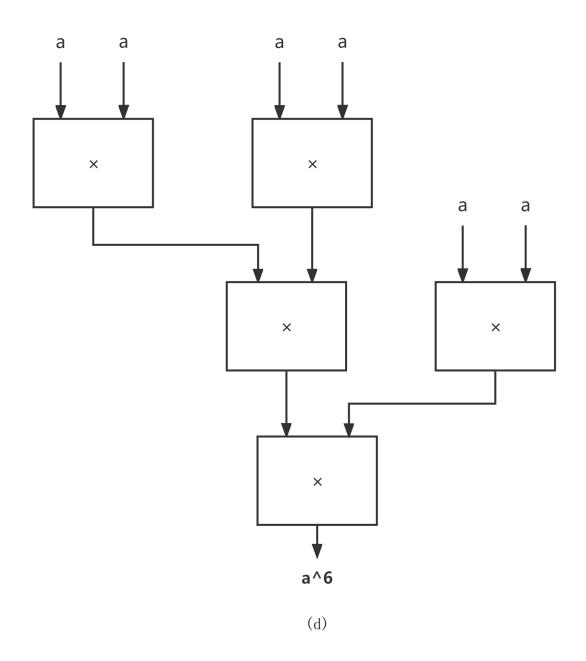
T1

如图









T2

a.

$$(98)_D = (01100010)_B \Rightarrow \ (98)_{\begin{subarray}{c} \begin{subarray}{c} \begin{subar$$

b.

$$(-105)_D = (11101001)_B \Rightarrow \ (-105)_{\begin{subarray}{c} \begin{subarray}{c} \begin{s$$

c.

d.

$$11101111(\red{h}) = 10010001$$
 $\Bar{\mathbb{R}} = (-17)_D$.

T3

a.

$$\begin{split} (01)_{\begin{subarray}{l} \begin{subarray}{l} (01)_{\begin{subarray}{l} \begin{subarray}{l} \begin{sub$$

b.

$$\begin{split} (111)_{\begin{subarray}{l} \begin{subarray}{l} (111)_{\begin{subarray}{l} \begin{subarray}{l} \begin{s$$

 $\mathbf{c}.$

$$\begin{split} (1010)_{\buildrel \bar{\empty} \bar{\empty} \bar{\empty}} + (1101)_{\buildrel \bar{\empty} \bar{\empty}} = & (0111)_{\buildrel \bar{\empty} \bar{\empty} \bar{\empty}} \\ = & (7)_D. \ (溢出) \end{split}$$

d.

T4

a.

$$(101011)_{\begin{subarray}{c}
\begin{subarray}{c}
\end{subarray}} = (11101011)_{\begin{subarray}{c}
\begin{subarray}{c}
\beg$$

b.

$$(011110)_{\begin{subarray}{c} \begin{subarray}{c} \begin{subarra$$

c. $(1111111111110000)_{\control{\uparrow}\control{\uparrow}} = (11110000)_{\control{\uparrow}\control{\uparrow}}.$ d. $(00001)_{\column{2pt}{$\not =$}\column{2pt}{$\not =$}}\column{2pt}{$\not =$}\column{2pt}{$\not =$}\$ T54.3(D) = 100.010011001100110011001(B) (取小数点后 21 位) $=(-1)^0 \times 1.000100110011 \times 2^2$ $\xrightarrow{IEEE754} 0\ 10000001\ 00010011001100110011001.$ **T6** =2022.5625(D).T7(1) a. 10100101 AND 11010101 = 10000101.b. 10001110 OR 11110101 = 11111111.c.NOT(11110001) = 00001110.(2)d. (x1234 AND x5678) OR (xABCD AND x99EF) =(0001001000110100 AND 0101011001111000) OR (1010101111001101 AND 1001100111101111) =(0001001000110000) OR (1000100111001101)

> x6A12 XOR x3A15 = 0110101000010010 XOR 0011101000010101= 0101000000000111= x5007.

=x9BFD.

e.

 ${f T8}$ 如图, $Q_2=A$ AND B AND C.

A	В	С	Q_1	Q_2
0	0	0	1	0
0	0	1	0	0
0	1	0	1	0
0	1	1	0	0
1	0	0	1	0
1	0	1	0	0
1	1	0	1	0
1	1	1	1	1

T9

(1) ' t n ' = 000010010000110100001101 = CQoN.

(2) 在 MIME 格式的电子邮件中,base64 可以用来将 binary 的字节序列数据编码成 ASCII 字符序列构成 的文本。使用时,在传输编码方式中指定 base64。使用的字符包括大小写字母各 26 个,加上 10 个数字,和加号 "+",斜杠 "\",一共 64 个字符,等号 "=" 用来作为后缀用途。

T10

 $\begin{aligned} \text{MAX} = & (-1)^0 \times 1.111111111111111111111 \times 2^{254-127} \\ = & 1.11111111111111111111111 \times 2^{127}. \end{aligned}$

T11

如图, $C = \{\{0, M\}, E[24:47]\}.$

