

① $A = B_{16} = 11 \cdot 16^1 + 9 \cdot 16^0 = 176 + 9 = 185$
 $B = 326_{10}$
 $A+B = 326 + 185 = 511 = \text{maxint}$
 $\text{maxint} = 2^{u-1} - 1 = 511 \Rightarrow 2^{u-1} = 512 \Rightarrow u-1=9$
 $\Rightarrow u=10$

$C \sim 5DB_{16} = 3 \cdot 16^2 + 13 \cdot 16^1 + 11 \cdot 16^0$
 $= 0011110110011001_2$
 $* = -(0000100101)$
 $= -37_{10}$

$\text{minint} = -2^{u-1} = -2^9 = -512$

$C-D = -512 \Rightarrow$
 $\Rightarrow D = C + 512$
 $\Rightarrow D = -37 + 512$
 $D = 475$

$733_8 = 7 \cdot 8^2 + 3 \cdot 8 + 3 = 475$

② $\text{minint} \sim 100000000 \Rightarrow$
 $\Rightarrow \text{minint} = -(100000000)$
 $= -2^8 \Rightarrow u-1=8 \Rightarrow u=9$
 \neq

$\text{minint} = -2^8 = -256$
 $\text{maxint} = 2^8 - 1 = 255$

$A = B_{16} = 11 \cdot 16 + 2 = 178_{10}$
 $B = 101_{10}$
 $C = 27_8 = 2 \cdot 8 + 7 = 23_{10}$

$A+B = 178 + 101 = 279 = -(512 - 279) = -233$

$\text{minint} - (A+B) = -256 - (-233) = -23$

$D = -23 + C = -23 + 23 = 0$

③ $(\overline{a+b}) \cdot (\overline{b+c}) + \overline{a \cdot b} \cdot \overline{b+c} =$
 $-(\overline{a+b}) + (\overline{b+c}) + \overline{a \cdot b} \cdot (\overline{b+c})$
 $-(\overline{a \cdot b}) + (\overline{b \cdot c}) + \overline{a \cdot b} \cdot (\overline{b+c})$
 $= a \cdot b + \overline{b \cdot c} + \overline{a \cdot b} \cdot b + \overline{a \cdot b} \cdot (\overline{b \cdot c})$
 $= a \cdot b + \overline{b \cdot c} + \overline{a \cdot b} + \overline{a \cdot b} \cdot \overline{b \cdot c}$
 $= a \cdot b + \overline{b \cdot c} + \overline{a \cdot b} (1 + \overline{b \cdot c})$
 $= a \cdot b + \overline{b \cdot c} + \overline{a \cdot b}$
 $= a \cdot b + \overline{b \cdot c}$

2-адресная	0-адресная
MOV F, A	LOAD A PUSH A
MUL F, C	MUL B
ADD F, D	PUSH C
MUL F, B	MUL
	PUSH D
	ADD
	PUSH B
	MUL
	STORE F

1	0124	I
2	24234542468	Y
3	4	E
4	010101020304101102103104	S
5	4	Q
6	10102103104101102103104105106107	addr
7	100101	M
	15715:	
	28 11	
100		N
101	10	
102	6	
103	7	
104	5	

