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a| 
$$(32500)_{10}$$
  $(0111110)|||101000)_{2}$ 

=  $2 | 32500$ 

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3 al 
$$(10|010|0)$$

=  $(0101010)$ 

=  $(0101010)$ 

=  $(1\times26+2^4+2^2+2^0)$ 

=  $-85$ 

3 bl  $(01000010)$ 

=  $-66$ 

cl  $(11111111)$ 

=  $(00000000)$ 

=  $(01010101)$ 

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```
<u>51</u> <u>a</u>
                         (525), (00100000 1101)2
          2 525
                          it is some for Is and 2's
                                                                                   10
             2621
                                                                                   11
             1310
                                                 -(321)<sub>10</sub>= -(000101000001)<sub>2</sub>
= (111010111110)<sub>15</sub>
                                                                                   10
                                                         = (111010111111)20
       (001000001101)
                                            (001000001101),5
       (111010111110)1
                                            (1110101111111)25
                                            1700011001100
         (000011001100)
                                            (00011001100) 20
 到
                                (753) = (001011 110001)2
                                                         -(864) 6-(001101100000)
                                                                  (110010100000)
       (001011110001),
                                              (0010 || 110001)<sub>25</sub>
(1100 10100000)<sub>25</sub>
       (110010011111)15
       (1 11110010000)
                                               (111110010001)25
```

```
1.8
-(00000|010101),
-(111110101010),
-(111110101011),25
-(000000111000)_{2}
=(1111110000111)_{15}
=(111111001000)_{25}
 - (0000 0000 000 J)<sub>2</sub>
= (1111111111)
 = (11111111111)=
  -(0000 0001 0000)2
 = (1111 1110 1111)<sub>15</sub>
= (1111 1111 0000)<sub>25</sub>
-(0000 0000 0000)<sub>2</sub>
=(1111 1111 1111)<sub>s</sub>
  =(000000000000)=
```

1-15	a pro a sumplement	
(8620),0 (10000110001000000) BCD	0 1 2 3	0 01 10
For exas 3 (8620) (11953) (10		100 101 110
(1011/00/01/00/00) (1011/00/01/00/000)	(A)(	1000
2   86 20 (8620) = 1000011010100	(c) (D) (E) (	2 100 3 100 4 1110 5 1111
2 21550 2 1077   2 538   2 269 0 2 134   2 67 0 2 33   3 16   3 18 0 3 16	-234 5 67 8	0001

Scanned by CamScanner

$$(18)_{10} = (00010010)_{2}$$

$$\frac{2}{90} = (00010010)_{16}$$

$$\frac{2}{90} = (00010010)_{26}$$

$$\frac{2}{41}$$

$$\frac{2}{20}$$

$$\frac{2}{10} = (01110011)_{26}$$

$$\frac{2}{15} = (01110011)_{26}$$

$$\frac{2}{15} = (01110011)_{26}$$

$$\frac{2}{140}$$

$$-(49)_{10} = -(00110001)_{2}$$

$$= (11001110)_{18}$$

$$\frac{2}{49} = (11001111)_{26}$$

$$\frac{2}{241}$$

$$\frac{2}{120}$$

$$\frac{2}{11}$$

2.12

GI (11010100) 
$$\frac{25}{25}$$
(10101011)  $\frac{25}{25}$ 
(1011101)  $\frac{25}{25}$ 
(10001111)  $\frac{25}{25}$ 
(10001111)  $\frac{25}{25}$ 
(10001111)  $\frac{25}{25}$ 
(01111110)  $\frac{25}{25}$ 
(01111110)  $\frac{25}{25}$ 
(0110101)  $\frac{25}{25}$ 
(0110101)  $\frac{25}{25}$ 
(0110101)  $\frac{25}{25}$ 
(0110101)  $\frac{25}{25}$ 
(0110101)  $\frac{25}{25}$ 
(0110101)  $\frac{25}{25}$ 
(01101010)  $\frac{25}{25}$ 
(01000000)  $\frac{25}{25}$ 
(010000000)  $\frac{25}{25}$ 

```
2.16
       al
               1234
               6666 is trace for 7 bits and above
       6
               41/3=13 is true for 8 base
          (4xx+1)/3 = (1xx+3)
        => 4n+1 = 3n+9
        => n=8
        C1 33/3=11 is true for Abits and above
           (3×x+3)/3=(1×x+1)
          \Rightarrow 3n+3 = 3n+3
        d 23+44+14+32=223
              2n+3+4n+4+n+4+3n+2=2n^2+2n+3
           \Rightarrow 10n + 13 = 2n^2 + 2n + 3
           \Rightarrow 2n^2 - 8n - 10 = 0
               x=5 or n=-1
              so, the operation is true for 5 base
      el 302/20 = 12·1
            (3\times n^2 + 0\times n + 2)/(2n) = n+2+x^{-1}
          = 3n^2 + 2 = 2n^2 + 4n + 2
          =7 n^2 - 4n = 0
                 7= 4 OR M= 4
          so, the operation is true for 4 bit.
      71
               2+4=5
             => n = 1 So, apparently it seems to be base 1.
But the are of different bases. As it not possible to satisfy this case with I base.
```