```
1a. 10011011<sub>2</sub>
       =2^{7}+2^{4}+2^{3}+2+1
        =128+16+8+2+1
       =144+10+1
       =15510
1b. 1101101<sub>2</sub>
       =2^6+2^5+2^3+2^2+1
       =64+32+8+4+1
       =96+12+1
       =108+1
       =10910
1c. 3A8<sub>16</sub>
       =3*16<sup>2</sup>+10*16+8
       =768+160+8
       =936
1d. 2214<sub>5</sub>
       =2*5^3+2*5^2+5+4
        =250+50+5+4
        =309
2a. 69<sub>10</sub>
        69/2=34 1
        34/2=17 0
        17/2=8 1
        8/2=4 0
        4/2=2 0
        2/2=1 0
        1/2=0 1
       =1000101
2b. 485<sub>10</sub>
        485/2=242
                     1
        242/2=121
                       0
        121/2=60
                        1
        60/2=30
                       0
        30/2=15
                       0
        15/2=7
                        1
        7/2=3
                        1
        3/2=1
                        1
        1/2=0
                        1
        =111100101
2c. 6D1A<sub>16</sub>
        6=0110, D=13=1101, 1=0001, 11=1011
        =0110110100011011
```