```
1. 100010 = 2^5 + 2 = 34
                                      100101 = 2^5 + 2^2 + 1 = 37
    101010 = 2^5 + 2^3 + 2 = 42
                                      110110 = 2^5 + 2^4 + 2^2 + 2 = 54
    1100011 = 2^6 + 2^5 + 2 + 1 = 99
                                     11110010 = 2^7 + 2^6 + 2^5 + 2^4 + 2 = 242
    111111101 = 2^7 + 2^6 + 2^5 + 2^4 + 2^3 + 2^2 + 1 = 253
    111111111 = 2^7 + 2^6 + 2^5 + 2^4 + 2^3 + 2^2 + 2 + 1 = 255
2. \quad 0.75 = 0.11
    0.646 = 0.10100101011...
    0.328 = 0.0101001111111...
                                                  1111/101 = 11
3. 110/10 = 11
                           1100/11 = 100
4. 10011010: -128+2^4+2^3+2 = -102
    01101011: 2^6+2^5+2^3+2+1 = 107
    10111001: -128+2^5+2^4+2^3+1 = -71
5. \quad 1\ 10000010\ 01101001110001000000000
                 10000010 = (130)_{10}
                 -1.01101001110001*2^{130-127} = -1011.01001110001
                                                                       (-11.305)
    0\ 11001111\ 10000111101011000000000
                 11001111 = (207)_{10}
                 +1.10000111101011*2^{207-127} = 1.10000111101011*2^{80}
                                                                            (1.8496*10^{24})
6. 00110100 - 00010010 = 00110100 + 11101110 = 00100010
    01100100 - 11100100 = 01100100 + 00011100 = 10000000
                                                                (overflow)
7. (Hexes) 60-38: 38 = 00111000
                                         2's complement = 11001000 = C8 \rightarrow
                                                                                   60 + C8 = 128
    A6-97:
                  97 = 10010111
                                         2's complement = 01101001 = 69
                                                                                   A6+69 = 10F
                                                                              \rightarrow
    F2-B6:
                  B6 = 10110110
                                         2's complement = 01001010 = 4A \rightarrow
                                                                                   F2+4A = 13C
                                                                                   BC+F0 = 1AC
    BC-10:
                  10 = 00010000
                                         2's complement = 11110000 = F0 \rightarrow
8. 4+2 = 0100+0010 = 0110
                                 (6)
    5+3 = 0101+0011 = 1000
                                 (8)
    7+3 = 0111+0011 = 0001\ 0000
                                      (10)
    15+13 = 0001 0101+0001 0011 = 0010 1000
                                                    (28)
    23+18 = 0010\ 0011+0001\ 1000 = 0100\ 0001
                                                    (41)
    68+56 = 0110\ 1000+0101\ 0110 = 0001\ 0010\ 0100 (124)
    123+111 = 0001\ 0010\ 0011+\ 0001\ 0001\ 0001 = 0010\ 0011\ 0100
                                                                        (234)
    287+154 = 0010\ 1000\ 0111+\ 0001\ 0101\ 0100 = 0100\ 0100\ 0001
                                                                        (441)
9. Hello,How are you?^ ^
                                (there are 2 space.)
10. 111111001:
                   6's 1, so error.
    00110110:
                   4's 1, so error.
    010101010101010111: 9's 1, so correct.
```