1. 14 to binary
   1. 14/2 = 7 R0
   2. 7/2 = 3 R1
   3. 3/2 = 1 R1
   4. 1/2 = 0 R1
   5. 1110
2. 49 to binary
   1. 49/2 = 24 R1
   2. 24/2 = 12 R0
   3. 12/2 = 6 R0
   4. 6/2 = 3 R0
   5. 3/2 = 1 R1
   6. 1/2 = 0 R1
   7. 110001
3. 19 to binary
   1. 2^4 = 16
   2. 19-16 = 3
   3. 2^1 = 2
   4. 3-2 = 1
   5. 2^0 = 1
   6. 1-1 = 0
   7. 10011
4. 57 to binary
   1. 57 – 2^5 = 57-32 = 25
   2. 25 – 2^4 = 25-16 = 9
   3. 9 – 2^3 = 9-8 = 1
   4. 1- 2^0 = 1-1 = 0
   5. 111001
5. 161 to binary
   1. 161 – 2^7=33
   2. 33 - 2^5 = 1
   3. 1 – 2^0 = 0
   4. 10100001
6. 585
   1. 585 – 2^9 = 73
   2. 73 – 2^6 = 9
   3. 9 – 2^3 = 1
   4. 1 – 2^0 = 0
   5. 1001001001
7. Binary to decimal
   1. 1011000110
      1. 2+4+64+128+512
         1. 710
   2. 1100101101110
      1. 2+4+8+32+64+256+2048+4096
      2. 6510
   3. 10000001111
      1. 1+2+4+8+1024
      2. 1039
8. HEX to OCT
   1. CFE
      1. 110011111110
      2. 6376
   2. 12D9
      1. 0001001011011001
      2. 11331
   3. 1F39A
      1. 00011111001110011010
      2. 371632
9. OCT to HEX
   1. 6655
      1. 110110101101
      2. DAD
   2. 7426
      1. 111100010110
      2. F16
   3. 175264
      1. 001111101010110100
      2. FAB4
10. HEX to DEC
    1. 20A
       1. 1000001010
       2. 2+8+512 = 522
    2. F39
       1. 111100111001
       2. 1+8+16+32+256+512+1024+2048=3897
    3. 1552
       1. 1010101010010
       2. 2+16+64+256+1024+4096=5458
11. DEC to HEX
    1. 161
       1. 10100001
       2. A1
    2. 2576
       1. 2576/2 = 1288 R 0
       2. 1288/2 =644 R0
       3. 644/2 = 322 R0
       4. 322/2 = 161 R0
       5. 161/2 = 80 R1
       6. 80/2 = 40 R0
       7. 40/2 = 20 R0
       8. 20/2 = 10 R0
       9. 10/2 = 5 R0
       10. 5/2 = 2 R1
       11. 2/2 = 1 R0
       12. ½ = 0 R1
       13. 101000010000
       14. A10
    3. 4095
       1. 4095/2 = 2047 R1
       2. 2047/2 = 1023 R1
       3. 1023/2 = 511 R1
       4. 511/2 = 255 R1
       5. 255/2 = 127 R1
       6. 127/2 = 63 R1
       7. 63/2 = 31 R1
       8. 31/2 = 15 R1
       9. 15/2 = 7 R1
       10. 7/2 = 3 R1
       11. 3/2 = 1 R1
       12. ½ = 0 R1
       13. 111111111111
       14. FFF
12. Convert DEC to OCT(WRONG ANSWERS IT SUPPOSED TO BE OCT TO BIN)
    1. Convert dec to binary
    2. Group into 3
    3. 335
       1. 101001111
       2. 517
    4. 552
       1. 1000101000
       2. 1050
    5. 2156
       1. 100001101100
       2. 4154
13. Twos complement
    1. 001110
       1. 110001+1=110010
       2. 101101+1=101110
       3. 001100+1=001101
       4. 111111+1=000000