```
Dint32t mask= (1<<n)-1;
 Ex: 4=4 0x8A
                         0000 1000 1010
                        1))/ @ -- 000 $
      1 < < 4
0 --- 00 1010
     x & wask = extract lowest4
2 int3L-t wask=-1; //all 1-bit
Ex: n=4 0x29
 1=2
  1=3 11...10000 => N Marsk = 00...01111 $ 0x29
                        = Ox9
```

```
encode_utfl: 6xample input: 253
 1-byte: D.... => # you're encoding are just the. bits
 2-bytes: 110..... => :..... => = 233 in bilery
  3-byes: 1110.... 10..... [0.....
  4-bytes: 11110... 10..... 10.....
=> Need to figure out how many by the I need to encode I have: compare import to the maximum value each pattern
          an encode
      => map val = all 1-bits for each det.
            1- byte = 0x001 F = 0x7F
                    > 06 1111111
            2-byte: Ob IIIIIIIII = Il one-bits
                    = 0x7FF
             3-bytes: 061.... = 16 one-bits
                     = 0x FFFF
             4-bytes: 061... ( = 21 one-bils
```

= OXIFFFFF