```
n + (n-1): clears last bit.
     n= n + (n-1) until n==0 gives no. of 1 in n.
     power of 2 n > 0 ff (n + (n-1) = = 0)
  ()"=()+0001 2 comp= 1 comp+1
      x = 10000111 \quad x >> 3 = 11111001010
                                          cheek fand
         lon fama
                         toggle 1 xon
                        R= 1011 (11)
             2 1011 (11)
             x + (~(1241)) ~ ~ 1 (1241)
             = 1001 (9) = 1001 (9)
                                          x & (0001000)
                          n v(000 | 000)
x((0001000) x2(1110111)
~ x = 12 987
                  To get nearest power of 2 smaller than x;
                  Ligits = 10g2(x);
                  nearest Power = (1 << ligits)
Pright most set bit x = 10 (001010)
                        x f x" => 001010
                  n=110101 -> 110110
                                   000010W
    (x + x") ~ or else
(x + -x) -x is x".
* Kerninghamm's Alyo count no of set bits.
                             generate RMSB rightmost set bir
       x= 0 1 0 0 1 1 0 1 0 1
                             2 - RMSB, count ++;
                    To foul set bit 5
```

