```
- Given an integer n, transform to zero by choosing
   repetetively:
        1.) Change the oth bit in the binary version of n
        1) Change the it bit if
                al i-1 is 1 AND
                b) i-2 → 0 are D
Return the minimum number of operations to make n = 0
                     6iven: 011
               Choose a. 010
                                     001
            1.) Blocked!
                                     000
 My first instinct was do #1 whenever possible. Does not work
   if i+1=1 for i=0
                   biven: 110
              1.) 34 bit to 0 via # 010
              2) Step # 1 011
              3) step#1 001
               4) Slep #3 000
               Total Steps: 4
                                              1000
   Algorithm:
                             1+1 1 1 0 10 141 0 0 1
                                              1001
         -First highest set bit
- First lonest set bit
                                               1011
                                               1010 1
                                   3 > 6 000
```

7+3+1+

highest ite > 0

1 > 1

1110

1111

1 > 1 > 1
10 > 11 > 01 > 00 3

100 7 1017 1117 110 7 010 7 011 7 001 7 000 7

00100

11 4 01 7 00 1

should_add = true

100-4

Mask = OxEFFF

while mask != 0

bit = input & mask
add = 0

while add < bit
add = (add << 1) + 1

if bit and should-add

ans += add

else if bit and!should-add

ans-z add

return ans

Er.

110
Fron left to right
Bit masking!
100-77 ans+=7:7
010-73 ans-=3
ans=4!

- 1) Start with bitnosk for largest value u/ only 1 bit set

 If unsigned: 0x E0000000 (For 32bit only)

 If signed: 0x 40000000
- If capture is not 0, and the number of operations performed is even or zero, anyment assign captured value w/ all right bits filled.

 If # operations is odd, subtract that value from result.
 - 3.) Right shift mask by 1
 - 4.) When mask = 0, you have answer!