1. Swap all Even and odd Index bits: ->

Even and odd Inde

rum: -> 1 0 1 1 0 0 10 11 0 1 10

Nult after - 0 1 1 1 0 0 0 1 1 1 1 0 0 1

Swa pptg

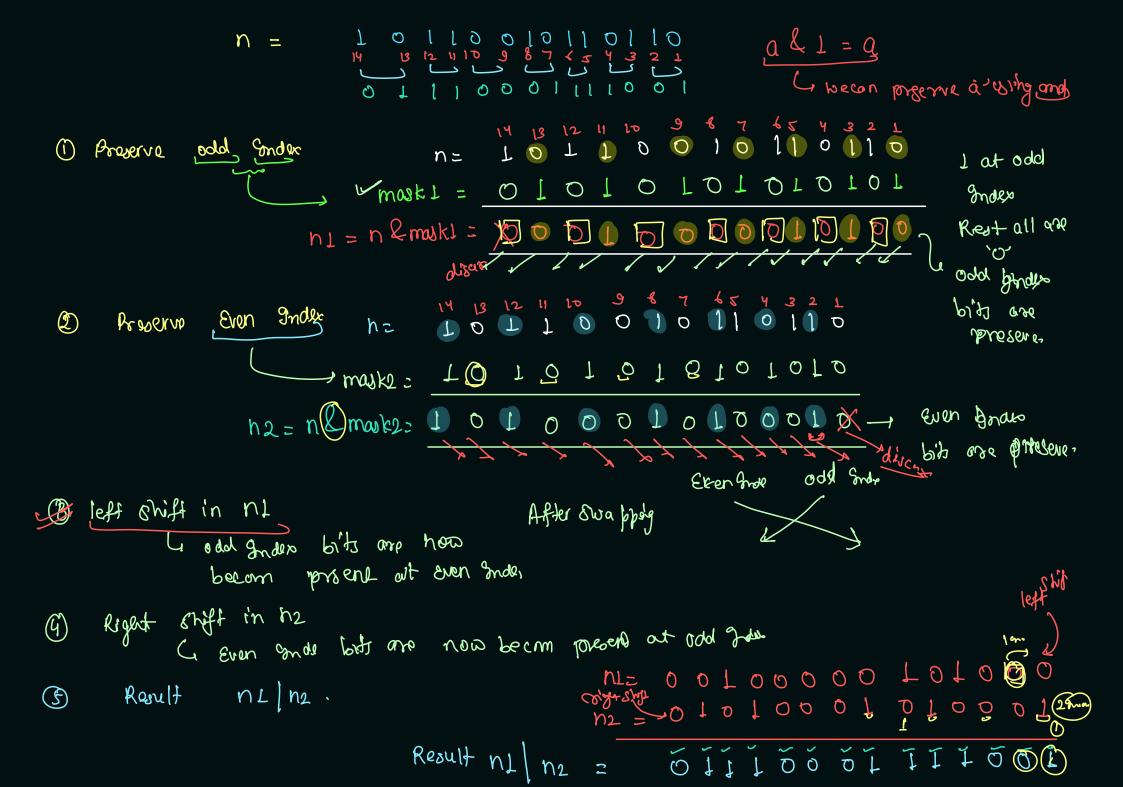
Even bit L-boxed Grades

- 1) Preserve odd Index bits in hi
- 1 Preserve Every Index bits in 12
- (3) Make A right shiff in 12 Even Inder -> odd Even in baccoone dire-
- (4) Make a left shift in nl odd Inda \_, even Inda i'n for word din
- Result = n1 | n2 ~ or operators

efter of 1010101

after of 10101

Swapping 100101



## 

> NOTE: Concern of odd and Even length is Mongad becase of size of mask, we make moute with we of all 32 bits?

sum of Bit Difference of All Paix:

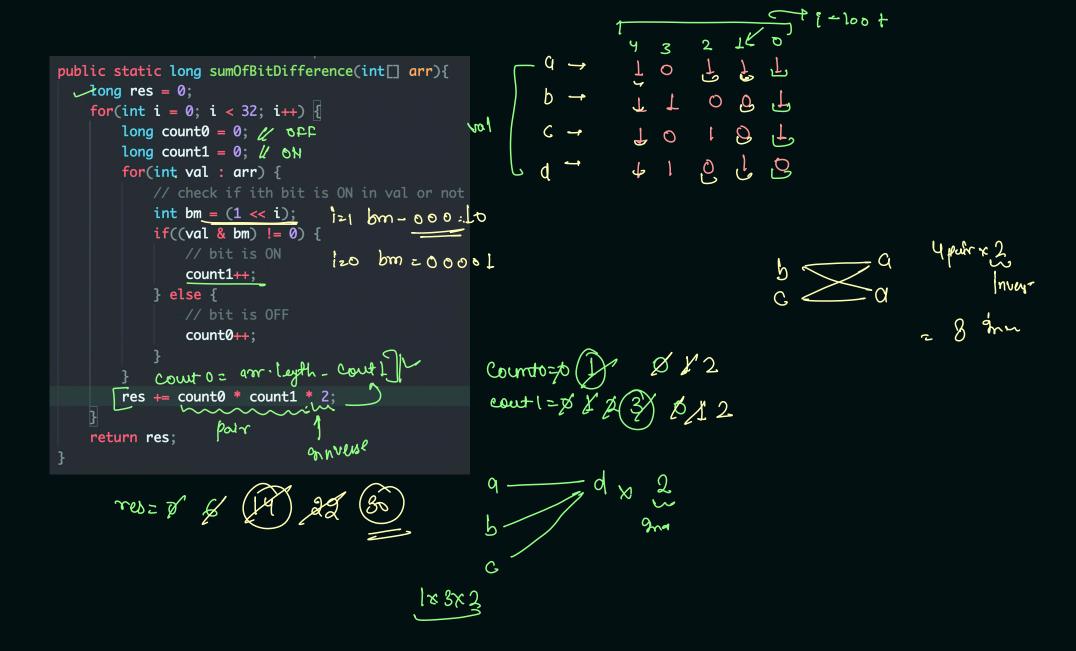
allowed

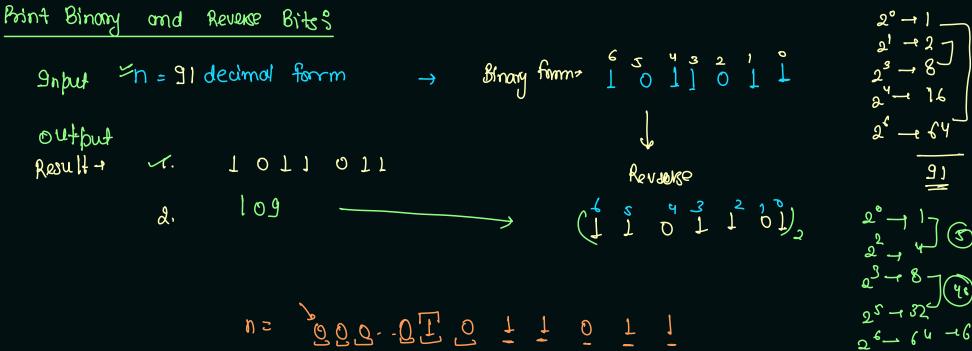
dun of bit diff. Ruin  $n_1 \leftrightarrow n_2$ O cont 3 Increment in difference Element (Integrs) Cza b9 c<sub>1</sub> a b Total puis db Resut= Eci Cb bc ac d G cdbd ad 8m of bit diff. 9 Bruteforce  $O(n^2)$ 

0(n)

(32n)

< lo+2 (mouth) D.S. (mouth) Logic contet virtual Onsolved leam'ge solution &0801uhin 30)entros of





n= 73 2 426 is it divisible by 3 or not sum of all digit = 24.

# if it is divisible by 8 then whose no-is divisible by 3

Input - Binary String
is it divisible by 3, without using conversion

concept -1 Horning Height

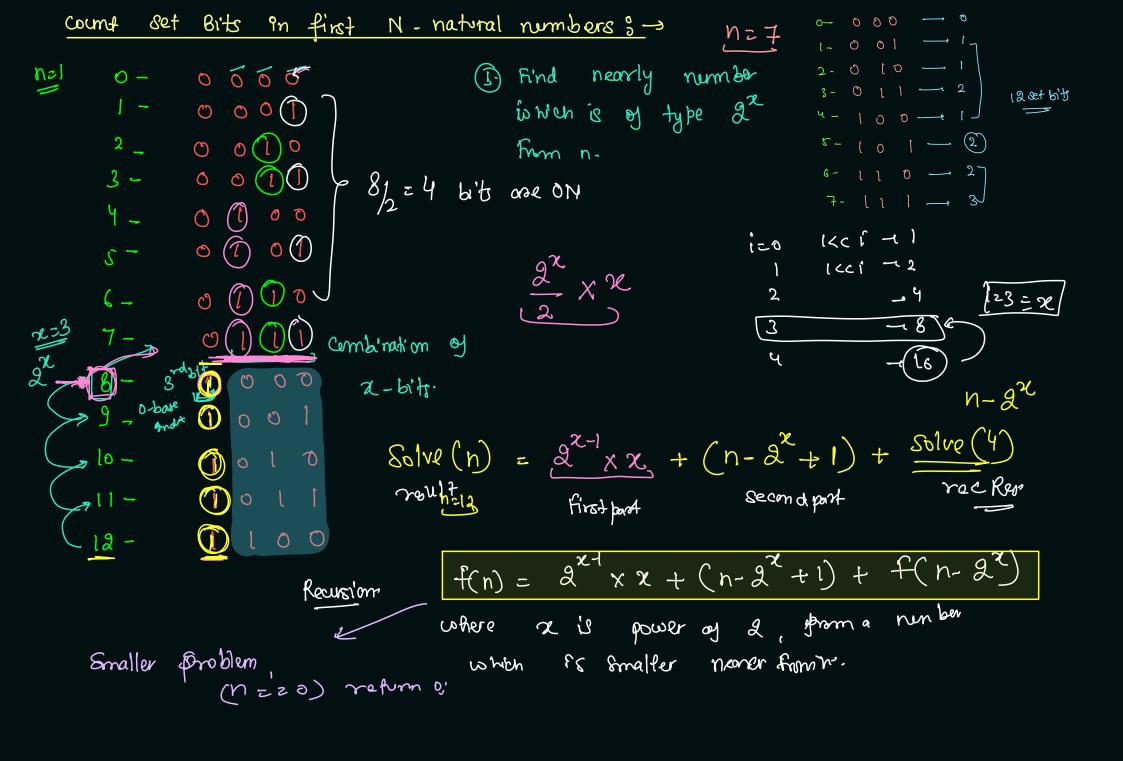
if n is divisible by the in binary for in Binary (11)<sub>2</sub>

then it must be divisible by 2 in decimal form,

How to check divisibility of 11.

| Sum of oligit of odd Index - Sum of dright of Even Index of 11 = =0

then we com say thom "n" is divisible by 3.



16 is greater than 12

robern



Remaining part of Bit Manifoldation ->

- Min Xor Pairs
- (2) Nth Palindromic Binary
- ③ Xor Queries Of A Subarray
- Minimum Flips To Make A Or B Equal To C
- Find Longest Awesome Substring

question of opcoming