

 $(x \gg i) & |$

Ans



	2 2 2 2 2 2 2 2 2 2° -> Bare values for i'm bits
8 bit	· · · · · · · · · · · · · · · · · · ·
z = 1	<u> </u>
20 44	000000000000000000000000000000000000
Z << 2	$000001 00 \longrightarrow 4$
n 263	$0 \circ 0 \circ 1 \circ 0 \circ 0 \longrightarrow 8$
x <2 9	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
x 44 5	$0 \circ 1 $
2 46	0 0 0 0 0 0 0 0 0
2447	$1 \begin{array}{cccccccccccccccccccccccccccccccccccc$
N << 8 <mark>≪</mark>	000000000000000000000000000000000000
	101 151 water
	bigger bucket
	int → 32 bits
	int -> 32 bits Colong
	0

Μ	ic	०४	0.	H
		- 0	- 1	L '

(P3) Given an number, find total number of set leits in it. 2 is positive number ~

 $\chi = 9 \xrightarrow{\text{brival}} 000$

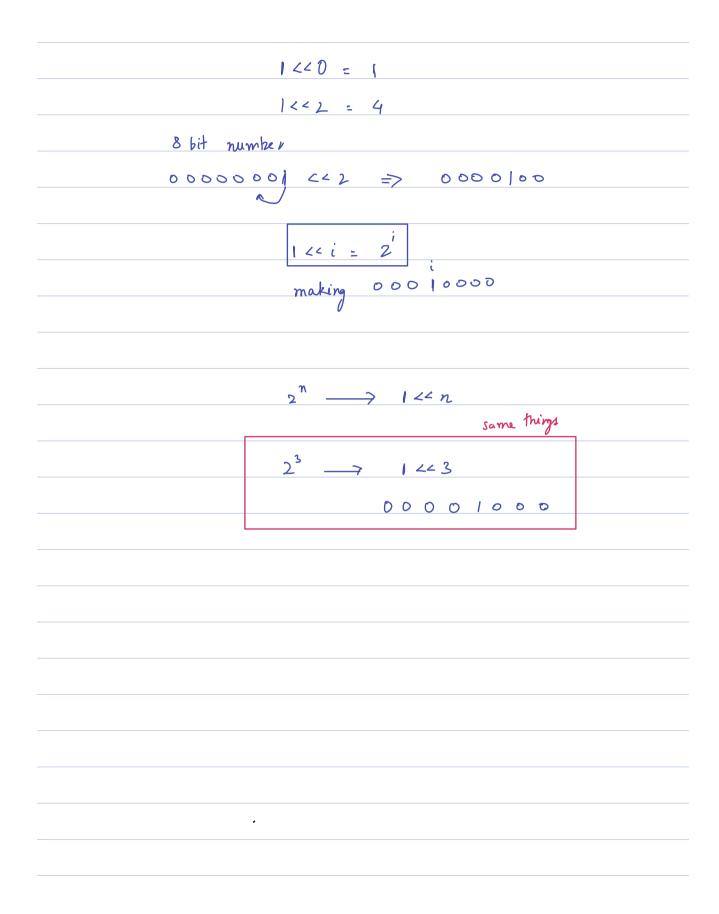
No of set bits: 2

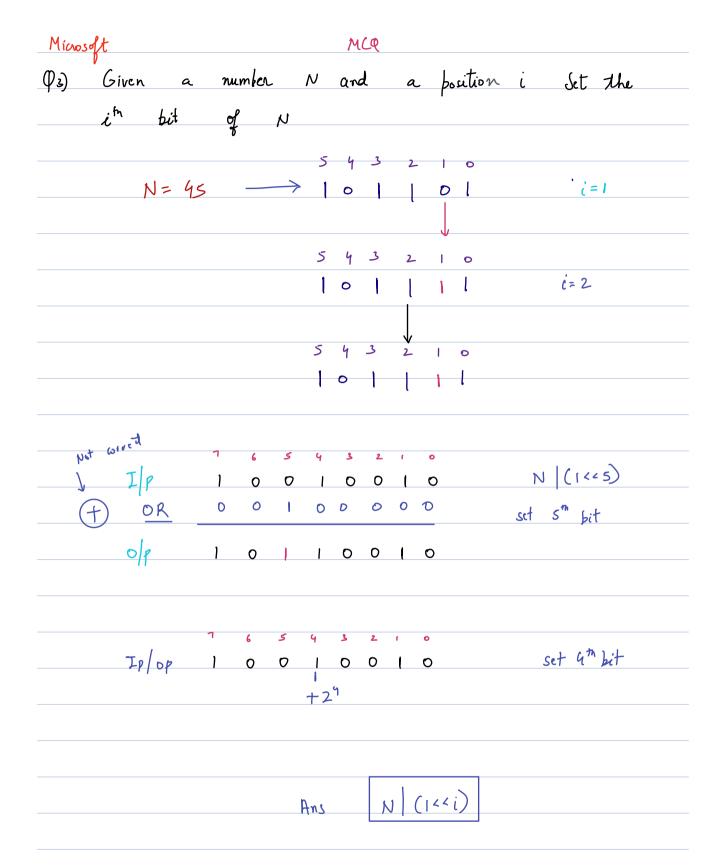
Convert no. to binary and count set bits

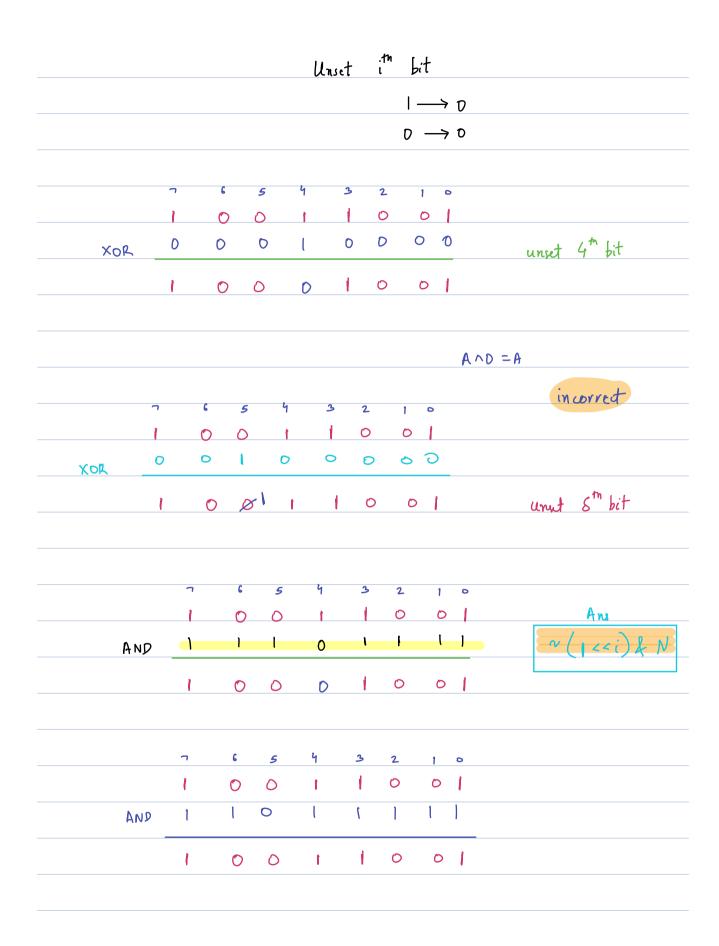
 $TC: O(\log 2) \qquad z \rightarrow R = 2$

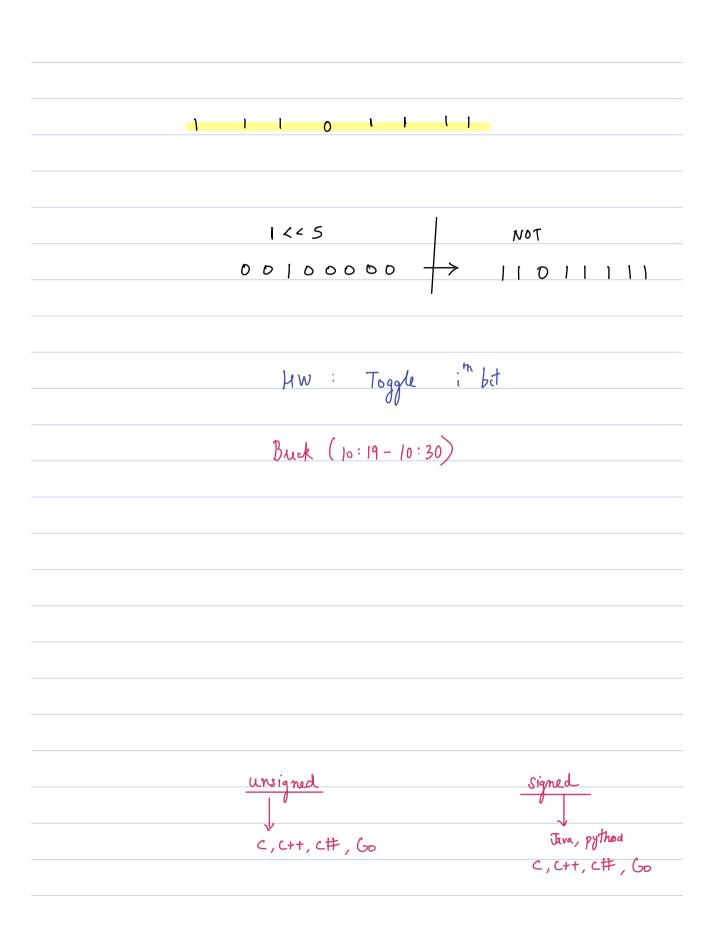
HFT

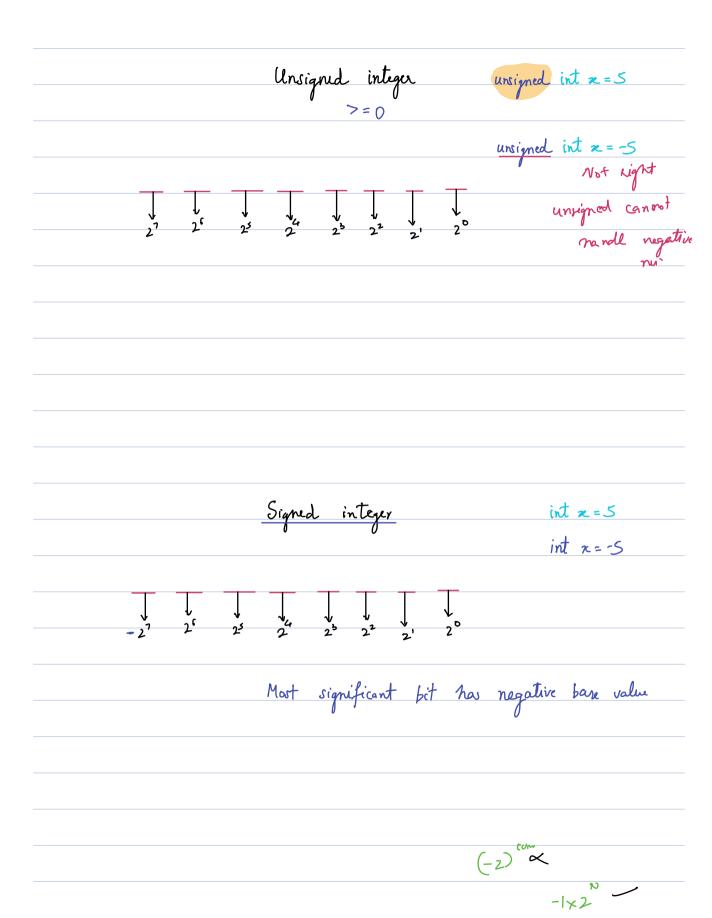
R/.2 = = 1 odd/cvcn 28/

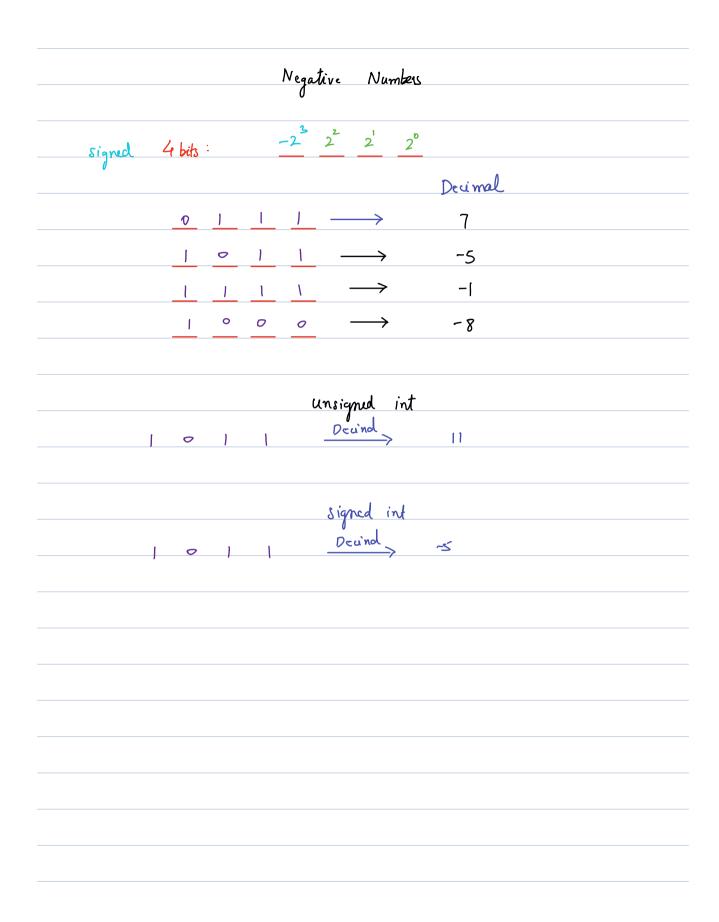


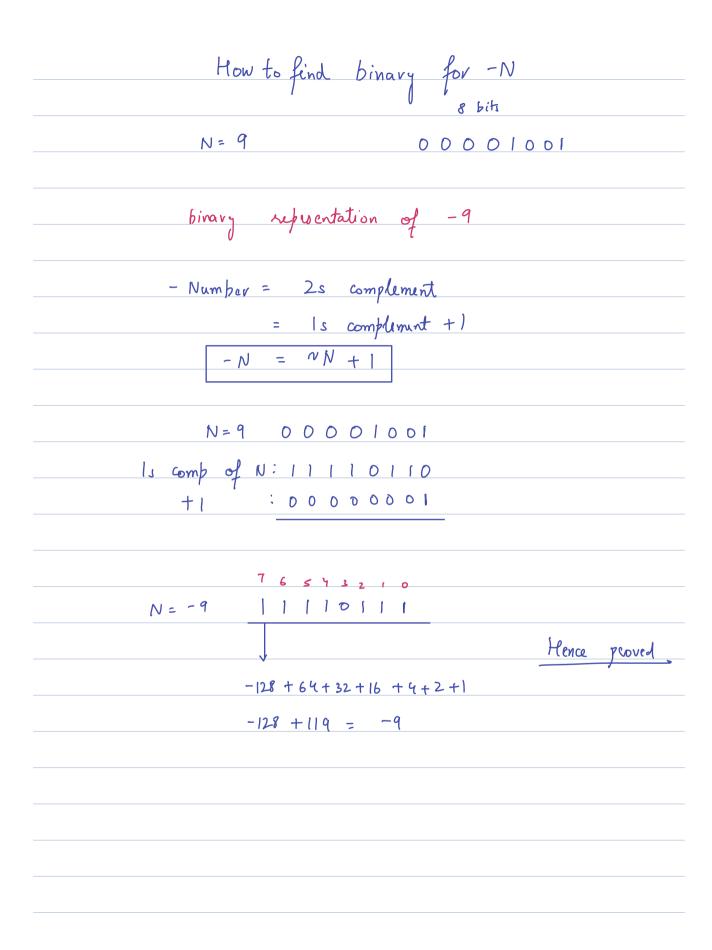












N= 0000011
~N=
+1 = 0000001
-3= 1111101
-2 ⁷ + 2 ⁶ +2 ⁵ +2 ⁴ + 2 ³ +2 ² + 1
-128 + 125 = -3

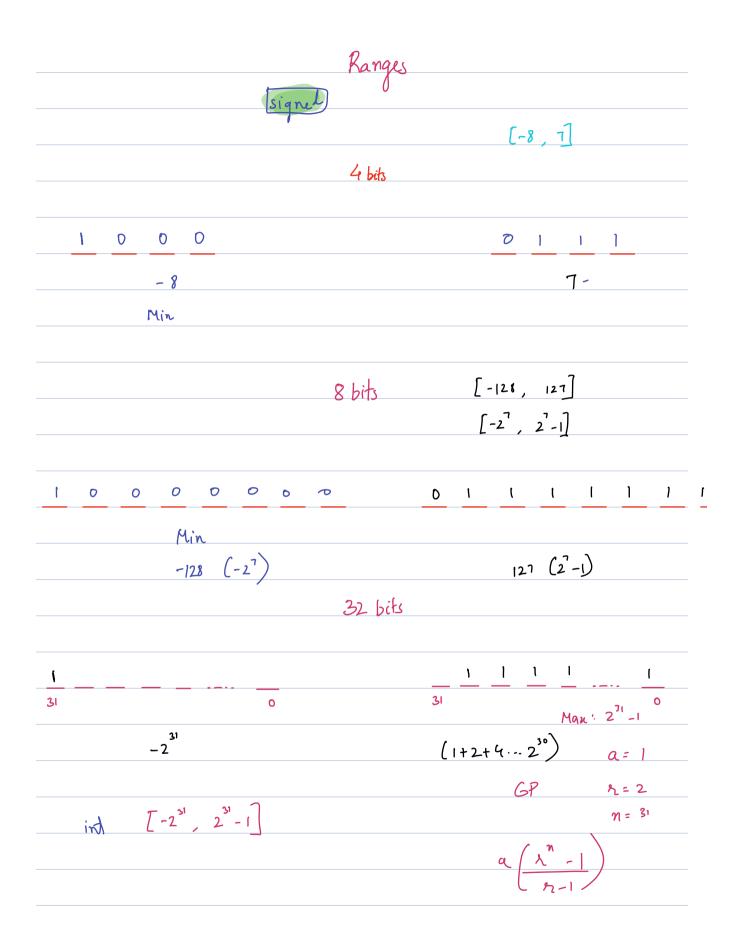


what is he decimal?

signal

uneigned

N = [D	0 0 0 0 1 0 1 0
~ N	[] [[0]0]
+	0000000
<u> </u>	
	1110110
	\downarrow
	-128+64+32+16+4+2
	100 10 (1) 1 1 1 1 1 1
	= -121 + 118
	= - 0
	- 10





long: 64 bits

long rang: [-2⁶⁵, 2⁶³-]

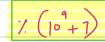
logn

id



109

$$(2^{10}) \sim (0^{5})^{3}$$



Eztra Hw qu
A=[1000010001011]
No. of subarrays having or =1 single 1 in a subarray Bitwise or =1
T) Sum of all subarray $20(N^2)$ Subarray >D
len < 10 ⁵ TLE
0(n)
A: [100001000101]
No-of superray having sum = Total subarray - subarraysum
Total subarray = N×(N+1) 2

