(No. of 1 Bits)

11

$(1 \leq n \leq 2^{31} - 1)$

Binary = B.T's

Pattern ↳ forcefully.

00000000000000000000000000001101

Binary ☑

6 bits

001101

1 → Cont = 0

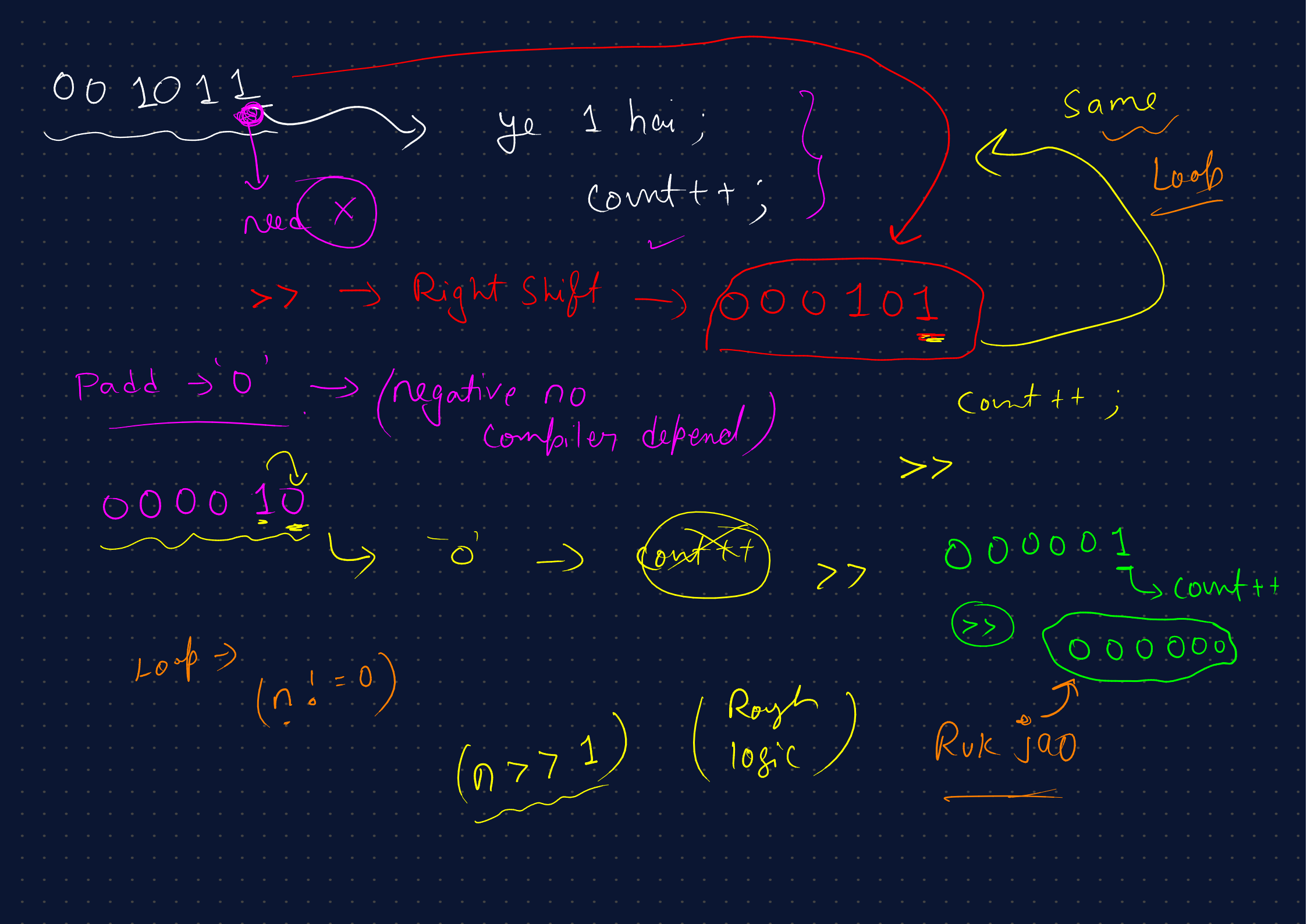
Rough logic

100 + 0

5000

↳ Pta karlenge 1 hai ya nhi

↳ or agr 1 hoga toh Cont ++;


00 1011
ye 1 hai ;
count++ ;
need
X
Same
Loop
>> → Right Shift → 000101
Padd → '0' → (Negative no
Compiler depend)
count++ ;
>>
0000 10
'0' → count++
>>
000001
count++
>>
000000
Loop →
(n != 0)
(n >> 1)
(Right
logic)
Ruk jao

11 → 00011011

convert ?

check ?

00011011
&
00000001
00000001

↳ 11 & 1

↑ Bitwise

convert X

00000001 → true

00000000 → false

2value

0 → cont X

1 → (cont ++)

true = 1

if ( )

{

cont ++;

}

0001

0001

Binary

2 bits → 0
→ 1

(computer used)

4 value ⇒ 00, 01, 10, 11

Decimal

10 bit → (0 to 9)

number system

Binary → Decimal → int

$(-2^{32-1} \leq x \leq 2^{31} - 1)$

Range

010 → 2

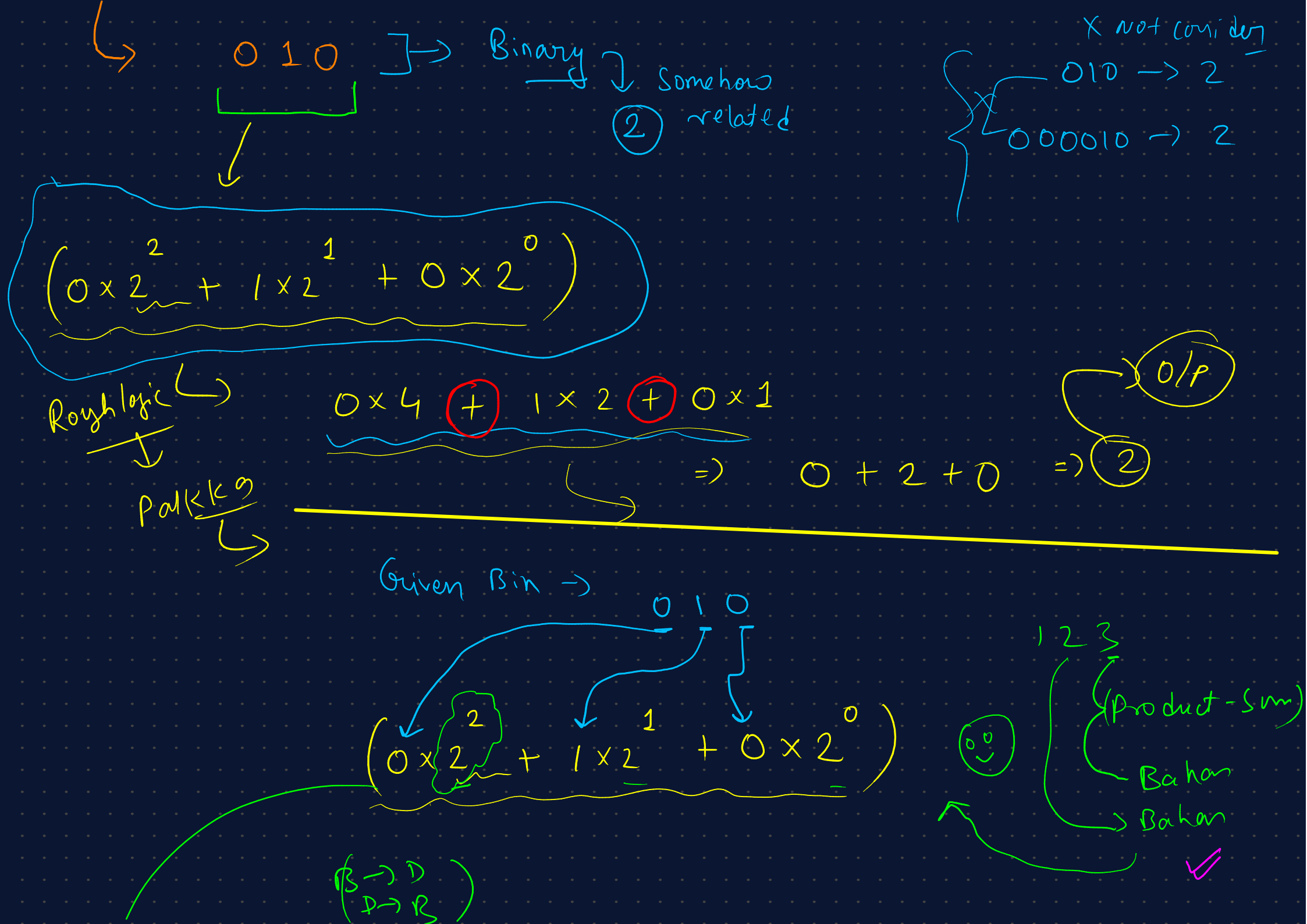
00010 → 2

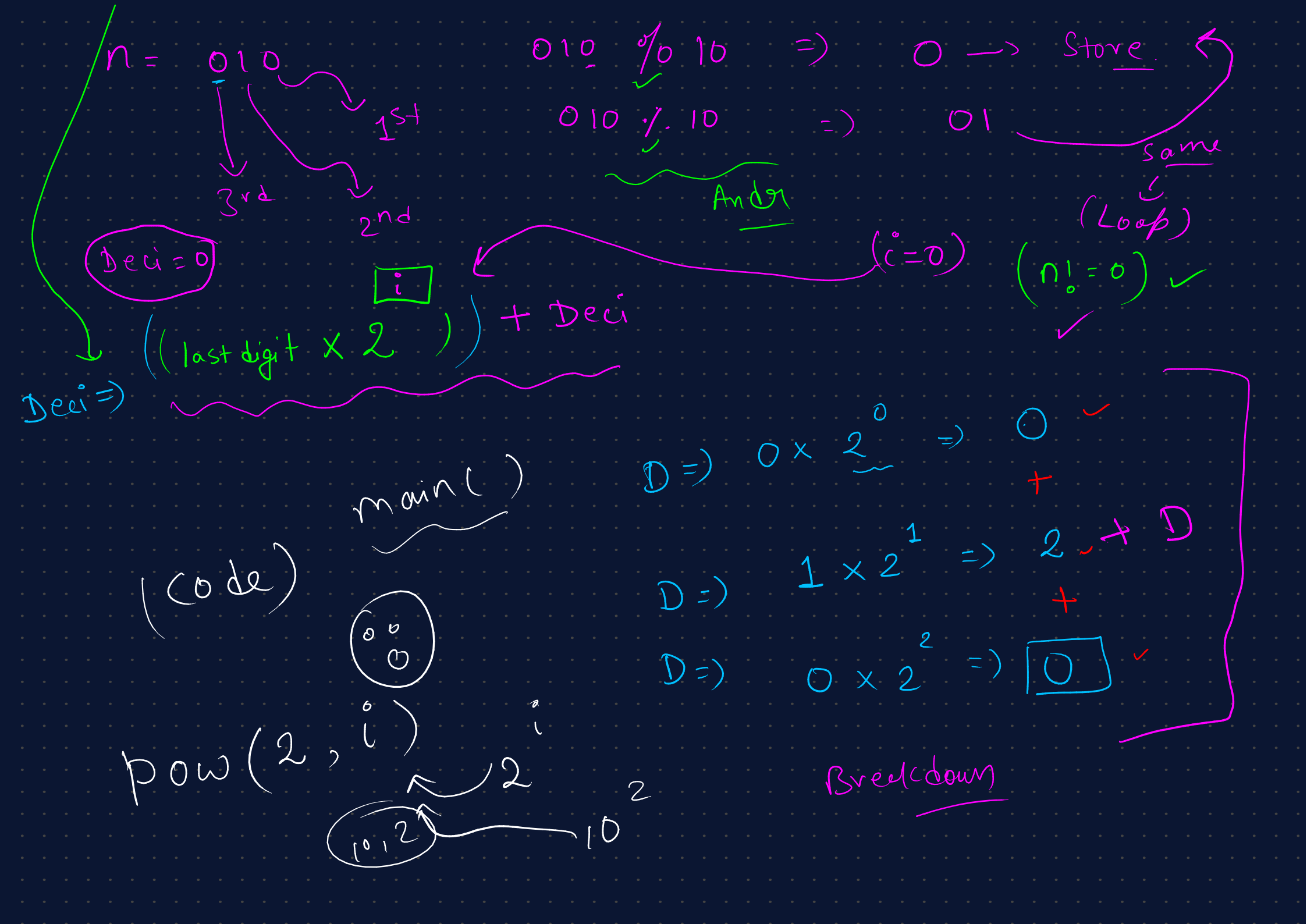
i/p → 010

o/p → 2

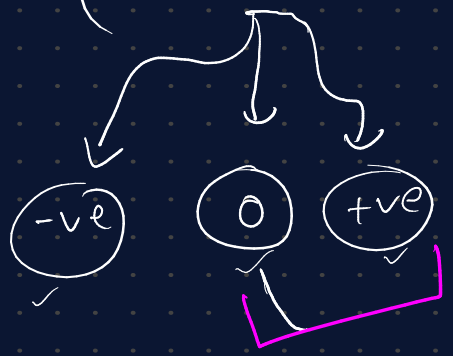
Breakdown

Convert ?


0 1 0
Binary
Somehow related
2
X not consider
010 -> 2
000010 -> 2
$(0 \times 2^2 + 1 \times 2^1 + 0 \times 2^0)$
Roughlogic
Pattern
$0 \times 4 + 1 \times 2 + 0 \times 1$
=> 0 + 2 + 0
=> 2
O/P
Given Bin ->
0 1 0
$(0 \times 2^2 + 1 \times 2^1 + 0 \times 2^0)$
1 2 3
(Product - Sum)
Bahar
Bahar
(B -> D
D -> B)


n = 010
1st
2nd
3rd
010 % 10 => 0 → Store
010 / 10 => 01
Same
And so
(Loop)
(n!=0)
(i=0)
i
Deci = 0
Deci =>
((last digit x 2^i)) + Deci
D => 0 x 2^0 => 0
+
D => 1 x 2^1 => 2 + D
+
D => 0 x 2^2 => 0
main()
(code)
pow(2, i)
2^i
10, 2
10^2
Breakdown

(Decimal to Binary)



i/p	o/p
0 →	000
	0
2 →	10
-ve ✗	

(D → B)

2 → `10'

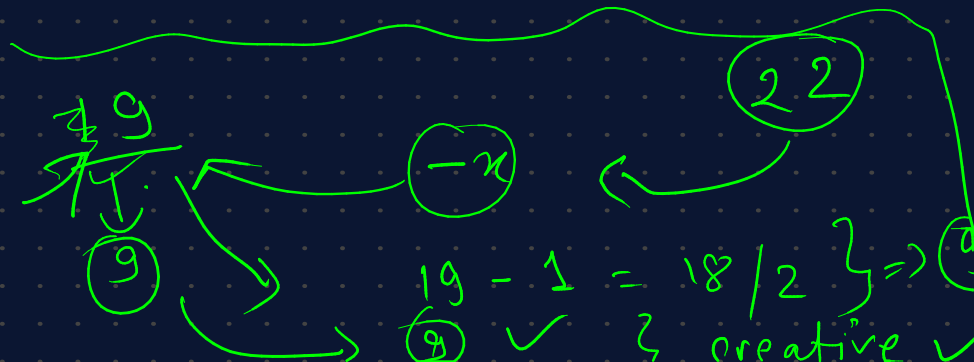
0001

$= 1 \times 2^0$

Iska kuch dekhte hai ? (guess)

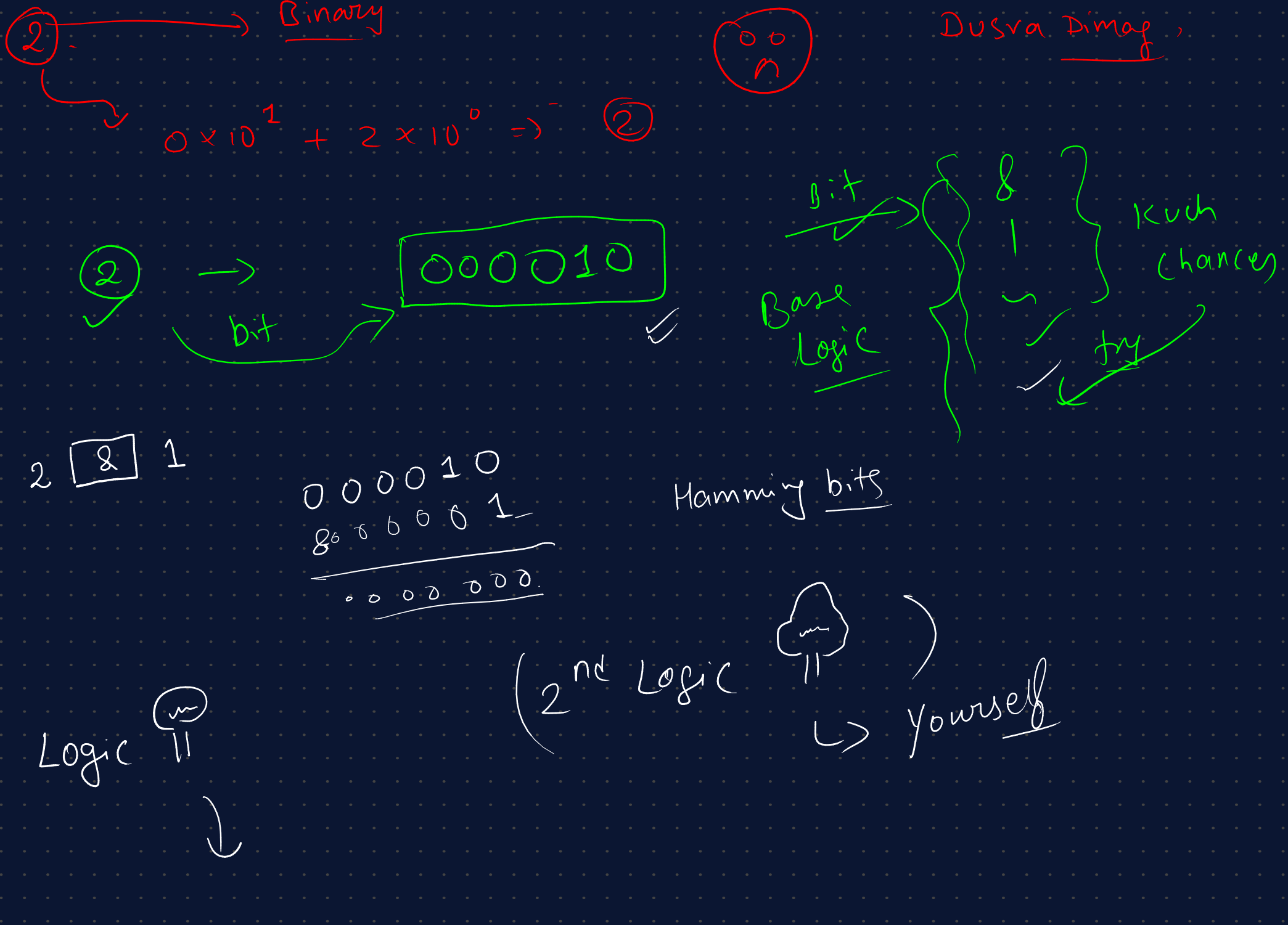
$0 \times 10^1 + 2 \times 10^0$

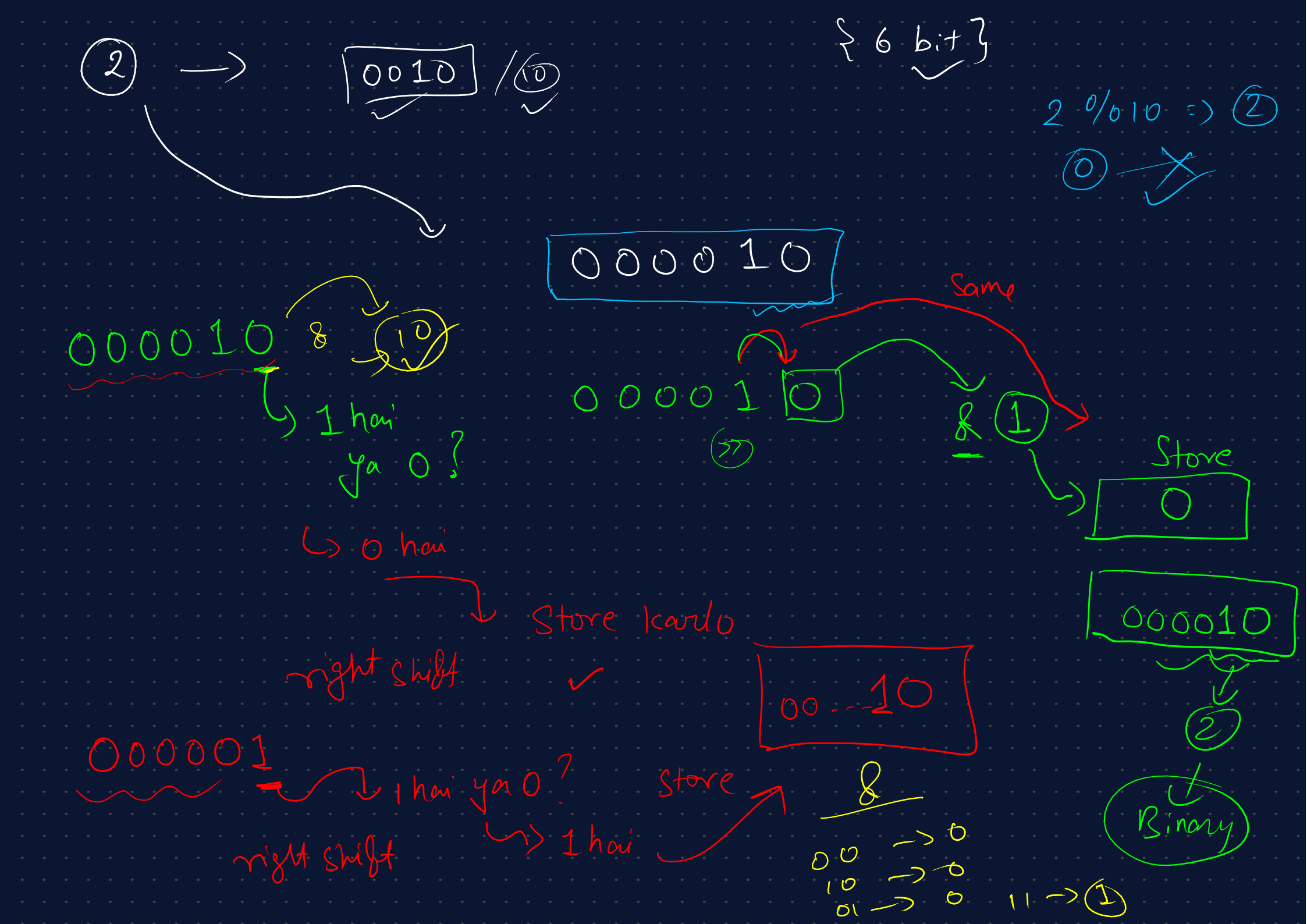
$0 + 2 \Rightarrow (2)$



Logic

creative ✓ OSA -


2
Binary
Dusra Dimag
0 x 10^1 + 2 x 10^0 => 2
2 -> bit -> 000010
Base Logic
bit
8
1
kuch chances
try
2 8 1
000010
000001
Hamming bits
Logic
(2nd Logic
Yourself


2 → 0010 /10
{6 bit}
2 %10 => 2
0
000010
8
10
1 hai ya 0?
0 hai
right shift
000001
1 hai ya 0?
right shift
1 hai
store
0000 10
Same
00001
0
>>
& 1
Store
0
Store karlo
00...10
&
00 -> 0
10 -> 0
01 -> 0
11 -> 1
000010
2
Binary

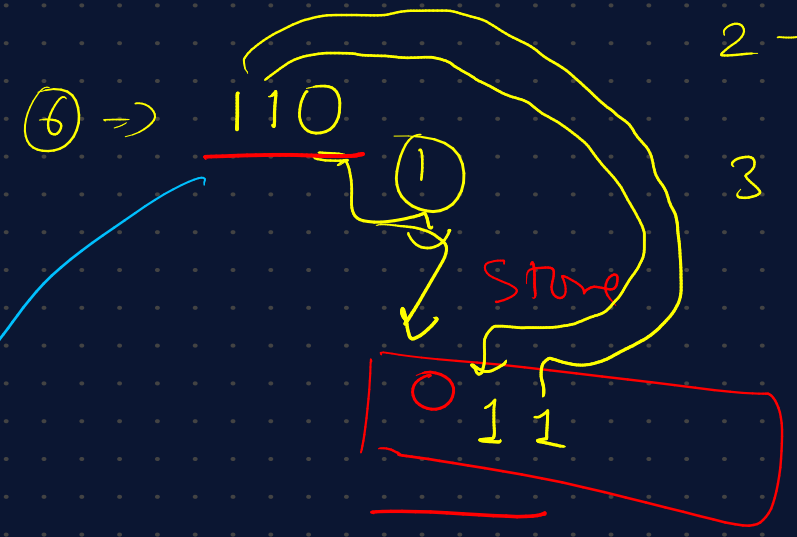
& , >> , (n != 0)

formula :- ?

2356798 ✓ long long

↳ Bada ❌

(integer)



110 ≠ 011

formula ↓ rev

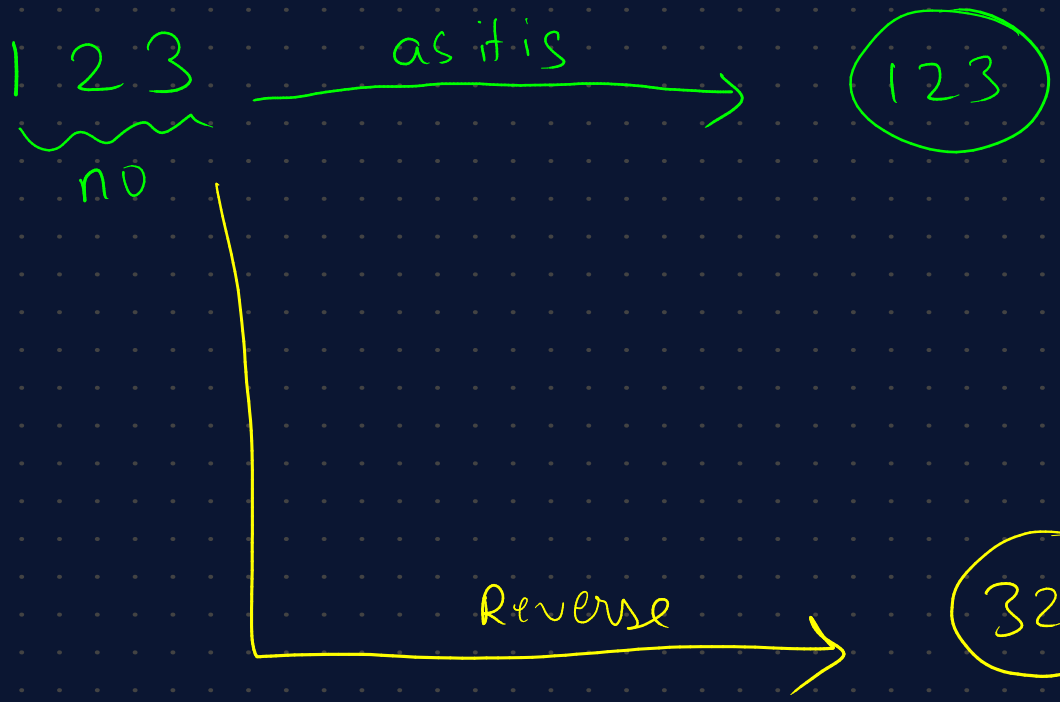
110 ✓

110101 ↘

(reverse)

101011

110101



??

n = 123 =>

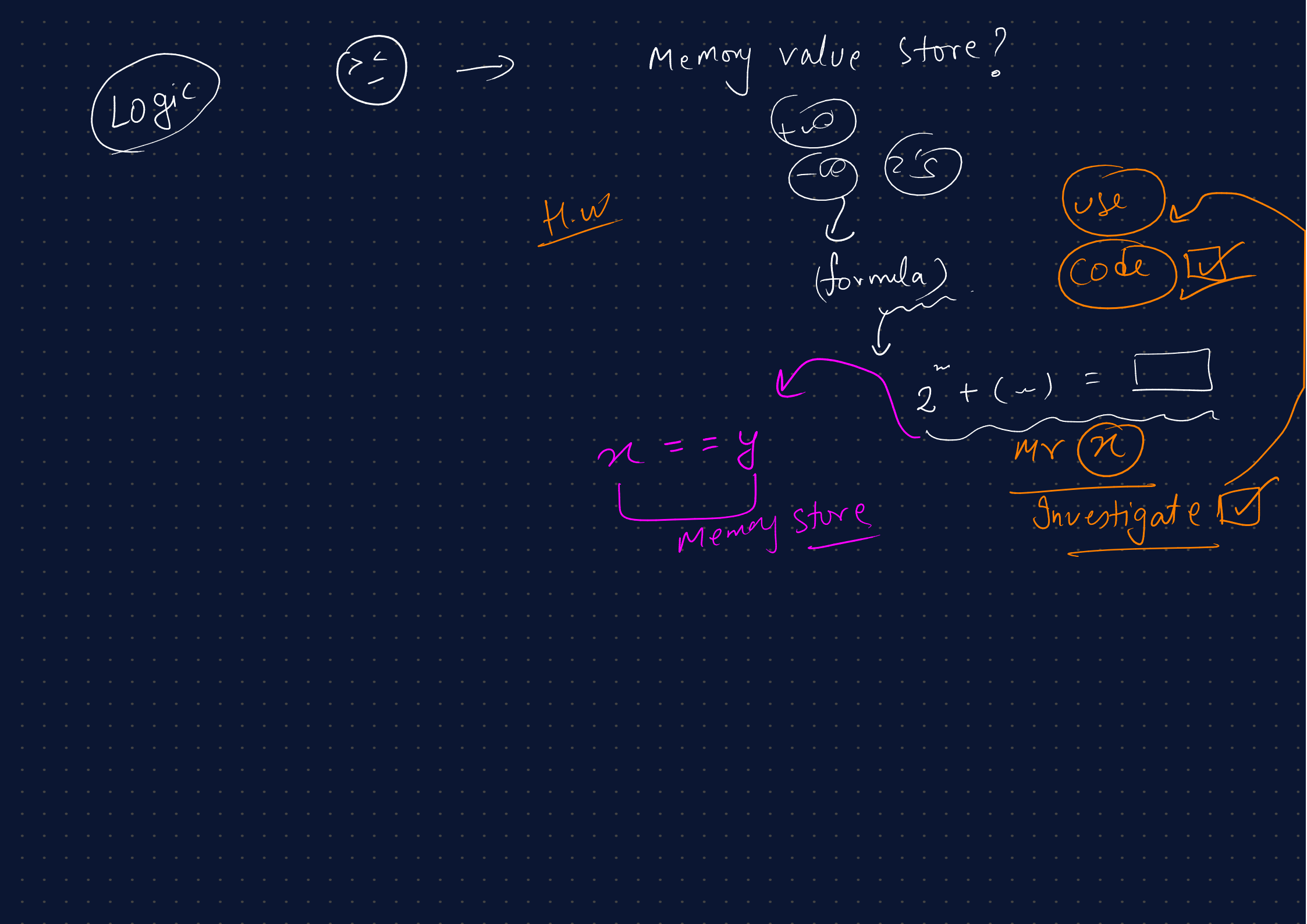
$(1 \times 10^{2} + 2 \times 10^{1} + 3 \times 10^{0}) + \text{Old value}$

1 0

Output = 0

(↳ yad aa rhai ?

(Output = (last digit $\times 10^{i}$) + Output)


Logic
Memory value store?
+0
-0
25
H.W
(formula)
use
code
$2^{\square} + (\sim) = \square$
MV x
Investigate
x == y
Memory store