Approach:

1. Convert a and b into integer
2. Add a and b
3. Convert sum of a and b to binary
4. Return sum

**How to convert binary to integer**

1 0 1 0 1

2^4 2^3 2^2 2^1 2^0

16+0+4+0+1 = 21

A[i] \* pow(2, n-i-1)

**How to convert int to binary**

Repeatedly divide by 2 at each step and keep storing reminder

Return remainder after reversal

**Code:**

def int\_to\_bin(nums):

ans = ""

while nums!=0:

ans += str(nums % 2)

nums //= 2

return ans[::-1] if ans else "0"

def bin\_to\_int(nums):

val = 0

for i in range(len(nums)):

val += int(nums[i]) \* pow(2,i)

return val

a = bin\_to\_int(list(a)[::-1])

b = bin\_to\_int(list(b)[::-1])

return int\_to\_bin(a+b)

return bin(a+b).split("0b")[1]