Bit

And →
or
Not
left Shift
Right shift

And → input all true(1) → output true → False(0)

→ 10101011
→ 10010110
10000010

And → Add ✗ Multiple

1 + 0 → 1 ✗
And 1 × 0 → 0 ✓
1 × 1 → 1 ✓

→ 10101011
01011010
_ __ 11010

And

OR → And
One true → True
Input

1	0	OR
1	1	1
0	1	1
0	0	0

11011011
00110111 OR
11111111 Ans

left Shift

→ left shift
A << 2 → bit
A ← 101011

Not → opposite

1 ⟷ 0
0 ⟷ 1

I → 1010110
0 → 0101001 Ans

A ← 100 → 4
10000 ← 16

Trick left Shift

(i) output > Input

(ii) Input × 2^n → bit