(Video 30) Bitwise Operators in C (Part 4)

⇒ **Outline**

→ Bitwise XOR Operator

→ Example

→ Homework.

Inclusive OR — vs — Exclusive OR / XOR

→ Either A is 1 or B is 1 Both are 1.

→ Including BOTH.

A	B	OR
0	0	0
0	1	1
1	0	1
1	1	1

→ Either A is 1 or B is 1, then the output is 1, But when both are 1 or 0 the output is 0.

→ Excluding BOTH

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A	B	XOR
0	0	0
0	1	1
1	0	1
1	1	0

→ Bitwise XOR (^) is Binary Operator.

It takes two numbers and perform bitwise XOR.

7 → 0111
4 → ^0100
0011 → 3

→ Result of XOR is 1 when two bits are different otherwise the result is Zero.

7^4 = 3

Code:

```
#include <stdio.h>
int main(){
    int a=4, b=3;
    a=a^b;
    b=a^b;
    a=a^b;
    printf("After XOR, a= %d and b= %d", a, b);
    return 0;
}
```