operator name	Sign	A = 10, B = 20
Assignment	=	A = B, [A = 20]
Addition	+	A + B = 30
Subtraction	-	A - B = - 10
Multiplication	*	A * B = 200
Division	/	B / A = 2
Modulo	%	B % A = 0

Arithmetic operator

Operator Name	Sign	A = 10 ; B = 20
equal	==	(A == B) is not true
not equal	!=	(A != B) is True
less than	<	(A < B) is True
greater than	>	(A > B) is not true
less than or equal to	<=	(A <= B) is true
greater than or equal to	>=	(A >= B) is not true

Comparison

Operator Name	Sign	A=10; B=20
and (logical)	&&	(A && B) is True
OR (logical)	||	(A || B) is True
not	!	!(A && B) is False

Boolean Operator

Bitwise Operator

operator	sign	A = 6 ; B = 8
Binary and	&	A & B = 0

A = 6 | 0 | 1 | 1 | 0 |

B = 8 | 1 | 0 | 0 | 0 |

A & B = 0 0 0 0

operator	Sign
binary or	1

A = 6, B = 8

(A | B) = 14

	8	4	2	1
A = 6	0	1	1	0
B = 8	1	0	0	0
A | B = 14	1	1	1	0

Operation	sign	A : 6 , B : 8
Binary XOR	$\wedge$	$(A \wedge B) = 14$

$A = 6$ | 0 | 1 | 1 | 0 |

$B = 8$ | 1 | 0 | 0 | 0 |

$A \wedge B = 14$ | 1 | 1 | 1 | 0 |

Operator	sign	A = 6,
Binary not	~	~A = -6

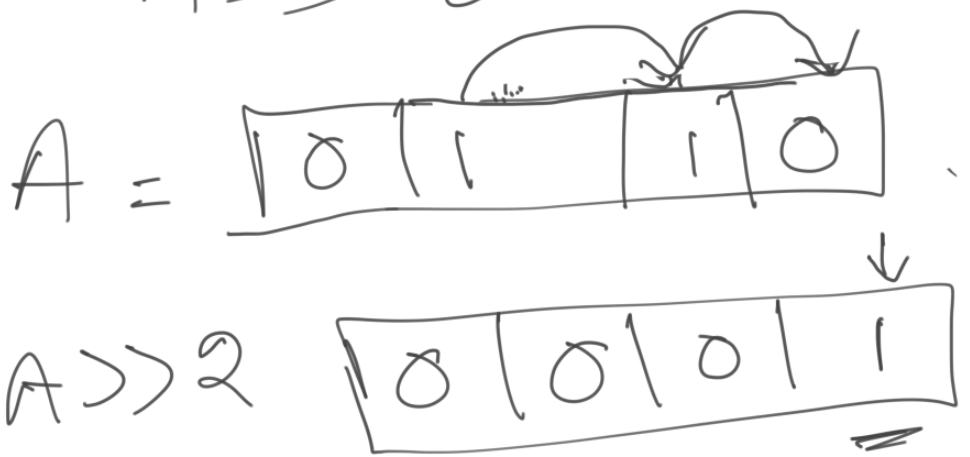
A = 6 | 0 | 1 | 1 | 0 |

~A = -6 | 1 | 0 | 0 | 1 |

Operator	sign
Right shift	>>

A = 6

A >> 2



operator	Sign	A = 6
Left shift	<<	A << 2

A = 6 | 0 | 1 | 1 | 0 |

A << 2 = | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |