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Operators and Expression

Operators: Perform specific task Example Addition, subtraction, Multiplication, division, Modulus

Expression: is followed by an equal sign and can contain more than one operator.

C = A + B ---- > The equal sign made this an Expression

C = A + B ---- The plus is an Operator. Performing Addition

In C, we have 4 types of operators

- 1. Arithmetic
- 2. Logical
- 3. Relational
- 4. Bitwise

Arithmetic: are expressed using arithmetic operators which are:

Operator	Result	
+	Addition (also unary plus)	
-0	Subtraction (also unary minus)	
*	Multiplication	
/	Division	
%	Modulus	
++	Increment	
+=	Addition assignment	
-=	Subtraction assignment	
*=	Multiplication assignment	
/=	Division assignment	
%=	Modulus assignment	
	Decrement	



Logical: are expressed using logical operators which includes

Operator	Description	
>	greater than	
<	less than	
==	equal to	
<=	less or equal to	
>=	greater or equal to	
!=	Inot equal to	

Relational Operators

Relational Operators

relational Operators			
Operator	Use	Description	
>	op1 > op2	Returns true if op1 is greater than op2	
>=	op1 >= op2	Returns true if op1 is greater than or equal to op2	
<	op1 < op2	Returns true if op1 is less than op2	
<=	op1 <= op2	Returns true if opl is less than or equal to op2	
==	op1 == op2	Returns true if op1 and op2 are equal	
t =	op1 != op2	Returns true if op1 and op2 are not equal	

Bitwise





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Operators Description		Use	
&	Bitwise AND	op1 & op2	
1	Bitwise OR	opl op2	
۸	Bitwise Exclusive OR	opl ^ op2	
~	Bitwise Complement	~op	
<<	Bitwise Shift Left	opl << op2	
>>	Bitwise Shift Right	opl >> op2	
>>> Bitwise Shift Right zero fill		op1 >>> op2	

Precedence among operators

This deals with the way or the arrangement in which compiler execute instruction among operators. Some operations will have to be perform first before the other. The same principle holds

Precedence	Associativity	Operator	Description
18	Left-to-right	()	Parentheses (grouping)
17	Left-to-right	f(args)	Function call
16	Left-to-right	x[index:index]	Slicing
15	Left-to-right	x[index]	Array Subscription
14	Right-to-left	**	Exponentiation
13	Left-to-right	~ _X	Bitwise not
12	Left-to-right	+x -x	Positive, Negative
11	Left-to-right	* / %	Multiplication Division Modulo
10	Left-to-right	+ -	Addition Subtraction
9	Left-to-right	<< >>	Bitwise left shift Bitwise right shift
8	Left-to-right	&	Bitwise AND
7	Left-to-right	٨	Bitwise XOR
6	Left-to-right		Bitwise OR
5	Left-to-right	in, not in, is, is not, <, <=, >, >=, <>, == !=	Membership Relational Equality Inequality
4	Left-to-right	not x	Boolean NOT
3	Left-to-right	and	Boolean AND
2	Left-to-right	or	Boolean OR
1	Left-to-right	lambda	Lambda expression



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