Programming in C

Recalling Statement Expression & Equation		
de claration An instructions. definition de claration de claration	int x = 10;	frint ("%d", 10) Print Stedement
=) Expenession -> The type of Statements		int m; Satression
=) Equation -> LMS = RMS int a=20; int b=20; a+b=40; Not Allowed Error	Statements	

Operator Procedence: has to solve figt. operator Ex 10+10 x2 10 + 10 x 2 10 + 20 20 X 2 = 40 $10/2 \times 3$ 10/2 * 3 10/6 0.666

Grouping Some operatur Lave same Precedence then we Check fur Associativity tells about direction Left to Right

Prece dence of operatur

$$\frac{1}{2}$$
 Postfix obserator (x++, x--) (Left to Right)
int a = 1;

$$\int_{A}^{A} d = 1;$$

$$\int_{A}^{A} d$$

4			
	type casting Size of ()	Operator	3 (jw) 3.14

	Precedence	Operator	Description	Associativity
_	$\overline{}$	++	Suffix/postfix increment and decrement	Left-to-right
•	7	()	Function call	
	1	[]	Array subscripting	
	1		Structure and union member access	
		->	Structure and union member access through pointer	
	L	(type){list}	Compound literal(C99)	
		++	Prefix increment and decrement ^[note 1]	Right-to-left
		+ -	Unary plus and minus	
		! ~	Logical NOT and bitwise NOT	
	2	(type)	Cast	
	2	*	Indirection (dereference)	
		&	Address-of	
		sizeof	Size-of ^[note 2]	
		_Alignof	Alignment requirement(C11)	
	3	* / %	Multiplication, division, and remainder	Left-to-right
	4	+ -	Addition and subtraction	

Ex jwd
$$\alpha = \pm 0$$
;
int $b = \lambda i 3 e of(\alpha) + \pm 4 \alpha + (\beta + 1) \alpha$
int (25.0)
Lagrangian int (25.0)

size of, ++a, (flowt) = Same Precedence

Some Precedence

Associationly -> R-> L

Precedence	Operator	Description	Associativity
	++	Suffix/postfix increment and decrement	Left-to-right
	()	Function call	
	[]	Array subscripting	
1		Structure and union member access	
	->	Structure and union member access through pointer	
	(type){list}	Compound literal(C99)	
	++	Prefix increment and decrement ^[note 1]	Right-to-left
2	+ -	Unary plus and minus	
	! ~	Logical NOT and bitwise NOT	
	(type)	Cast	
	*	Indirection (dereference)	
	&	Address-of	
	sizeof	Size-of ^[note 2]	
	_Alignof	Alignment requirement(C11)	
3	* / %	Multiplication, division, and remainder	Left-to-right
4	+ -	Addition and subtraction	~

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Precedence	Operator	Description	Associativity
	++	Suffix/postfix increment and decrement	Left-to-right
	()	Function call	
1 [[]	Array subscripting	
-		Structure and union member access	
	->	Structure and union member access through pointer	
L	(type){list}	Compound literal(C99)	
	++	Prefix increment and decrement ^[note 1]	Right-to-left
	+ -	Unary plus and minus	
	! ~	Logical NOT and bitwise NOT	
2	(type)	Cast	
2	*	Indirection (dereference)	
	&	Address-of	
	sizeof	Size-of ^[note 2]	
	_Alignof	Alignment requirement(C11)	
3	* / %	Multiplication, division, and remainder	Left-to-right
4	+ -	Addition and subtraction	
5	<< >>	Bitwise left shift and right shift]
6	< <=	For relational operators < and ≤ respectively	
0	>>=	For relational operators > and ≥ respectively	
7	== !=	For relational = and ≠ respectively	
8	&	Bitwise AND	
9	^	Bitwise XOR (exclusive or)	
10		Bitwise OR (inclusive or)	
11	.8.3	Logical AND	
12	П	Logical OR	

13	?:	Ternary conditional ^[note 3]	Right-to-left
	=	Simple assignment	
	+= -=	Assignment by sum and difference	
14 ^[note 4]	*= /= %=	Assignment by product, quotient, and remainder	
	<<= >>=	Assignment by bitwise left shift and right shift	
	= =^ =&	Assignment by bitwise AND, XOR, and OR	
15	,	Comma	Left-to-right

 Between 1 Semicolumn,
It is not allowed to
Modify a value like and
(an not assign also.