Operator Precedence and Associativity

The computer scans an expression which contains the operators from left to right and performs only one operation at a time. The expression will be scanned many times to produce the result. The order in which various operations are performed is known as hierarchy of operations or operator precedence. Some of the operators of the same level of precedence are evaluated from left to right or right to left. This is referred to associativity.

Order	Operator	Meaning
1	**( )**	Parentheses
2	****	Exponentiation
3	**+, -, ~**	Unary Plus, Unary Minus, Bitwise Not
4	***, /, //, %**	Multiplication, Division, Floor Division, Modulus
5	**+, -**	Addition, Subtraction
6	<<, >>	Bitwise Left Shift, Bitwise Right Shift
7	**&**	Bitwise AND
8	^	Bitwise XOR
9	>, >=, <, <=, ==, !=	Relational Operators
10	**=, %=, /=, //=, -=, +=, *=, **=**	Assignment Operators
11	is, is not	Identity Operators
12	in, not in	Membership Operators
13	not	Logical NOT
14	or	Logical OR
15	and	Logical AND

- Parentheses
- Exponentiation
- Multiplication, Division, Modulus and Floor Division
- Addition and Subtraction
- Assignment

```
value = (1+1)*2**4//3+4-1
        2*2**4//3+4-1
        2*16//3+4-1
        32//3+4-1
        10+4-1
        14-1
        13
```