ARITHMETIC OPERATORS

Modulo

% → returns the remainder

int a = 10 int b = 3

a+b = 13

a-b = 7

a*b = 30

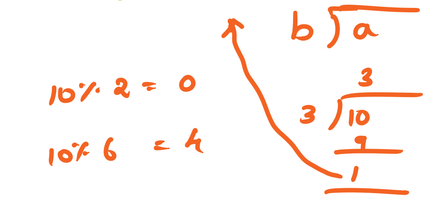
a%b = 1

10 % 2 = 0

10 % 6 = 4

+ - * / %

++ increment -- decrement



int a = 10

a++ => 11 ↓ +1

a++ => 12 ↓ +1

a++ => 13

int a = 10

a-- => 9 -1 ↓

a-- => 8 -1 ↓

a-- => 7

Increment/Decrement

Pre: ++a, --a

Post: a++, a--

int a = 10

cout<<(a++); 10

a => 11

cout<<(a); 11

int a = 10 a => 11

cout<<(++a); 11

cout<<(a); 11

++a;

a++;

a = 10

int b = a++

b = 10

a = 11

a = 10

int b = ++a 11

b = 11

a = 11

int a;

a = 10;

a += 5 → a = a+5 → a = 10+5 → a = 15

a = a*2

a = 10	a
a+=2	12
a-=2	8
a*=2	20
a/=2	5
a%=2	0

a = a%2 => 10 % 2 = 0

& → Bitwise AND

10 & 2

10 → 1010

2 → 0010

0010

2