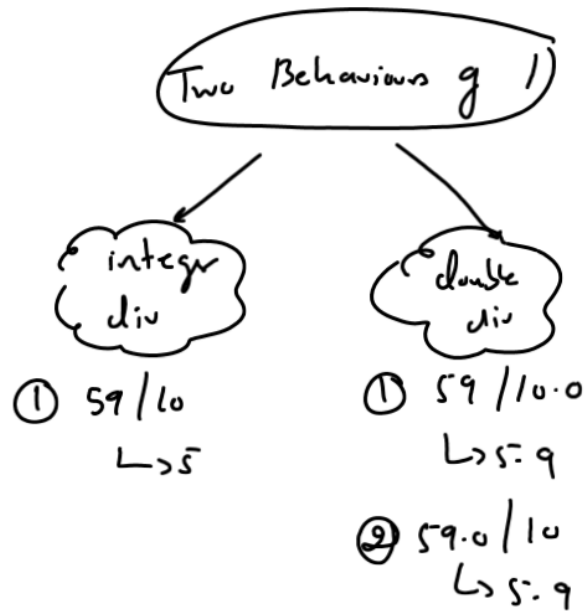


## OPERATORS

① Arithmetic  
+  
-  
\*  
/  
⌘



① int a;  
a = 10/4;  
②

③ int a;  
X a = 10/4.0;  
lossy conv

② float a;  
a = 10/4;  
Ⓢ.cf

④ float a;  
X a = 10/4.0;  
lossy conv

float a;  
 X a = 1.7;

Soln 1  
 float a;  
 ✓ a = 1.7f;

Soln 2  
 float a;  
 a = (float)1.7;

Soln 3  
 double a;  
 ✓ a = 1.7;

. / → Mod Operator

<u>C</u>	<u>Java</u>	
① 3 . / . 2 ↳ 1	① 3 . / . 2 ↳ 1	✓ 'B' . / . 'D' ↳ 66 . / . 65 ↳ 1
② 10 . / . 4 ↳ 2	② 10 . / . 4 ↳ 2	
③ 2 . / . 3 ↳ 2	③ 2 . / . 3 ↳ 2	
④ X 3.0 . / . 2.0	④ 3.0 . / . 2.0 ↳ 1.0	

## ② Relational Operator

$>$   
 $<$   
 $>=$   
 $<=$   
 $=$   
 $!=$

Ex:

$10 == 10$   
 $\hookrightarrow \text{true}$

$7 < 3$   
 $\hookrightarrow \text{false}$

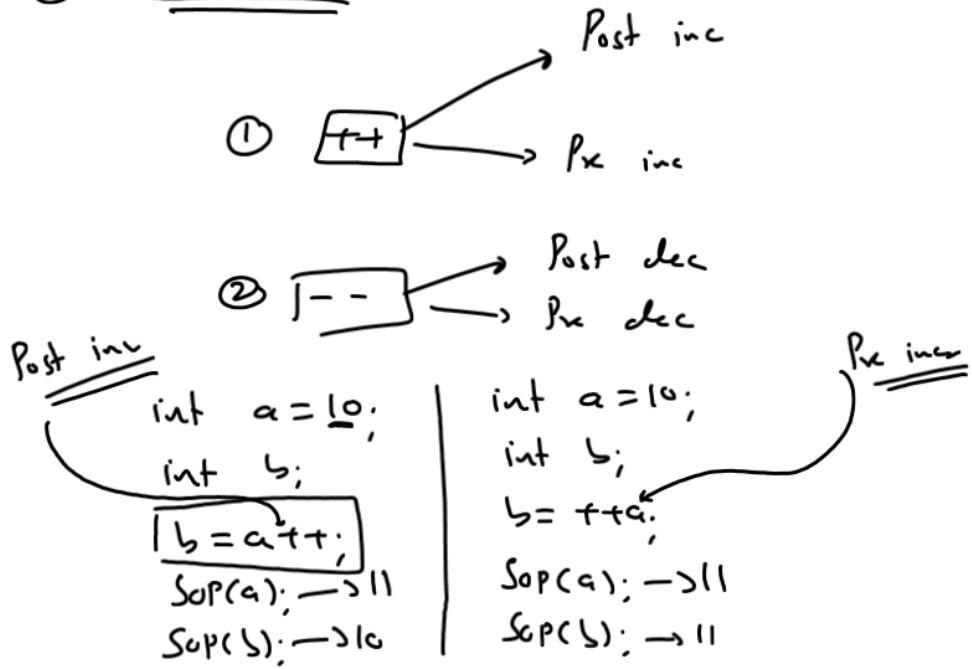
~~$7 > 3 > 2$~~   
 $\text{true} > 2$

## ③ Logical Operator

- ①  $\&\&$  logical AND
- ②  $||$  logical OR
- ③  $!$  logical NOT

<u>C</u>	Vls	<u>Java</u>
①	int a=1; int b; $\checkmark b = !a;$	① int a=1; int b; <del><math>b = !a;</math></del>
	$\text{printf}("%d", b);$	boulean a=true;
②	int a=0; int b; $b = !a;$ $\text{printf}("%d", b);$ $\hookrightarrow$ ①	boulean b; $b = !a; \checkmark$ $\hookrightarrow \text{false}$

④ Iner | Der



⑤ Shorthand op

```
int a=5, b=7;
```

$+=$

- =

 $\times =$ 

11

$$\frac{1}{2} \approx$$
$$a = a + b;$$

5

$$a \boxed{+ =} b;$$

Same

$$a = a - b;$$

5

$$a \mid \boxed{= b};$$

Same

int a=10, b=7;

a -= b;

↳ a = a - b;

SOP(a);

↳ 3

Vls

int a=10, b=7;

a = -b;

SOP(a); → -7

⑥ Assignment

=

⑦ Parenth :

( ) | (a+b)\*c