

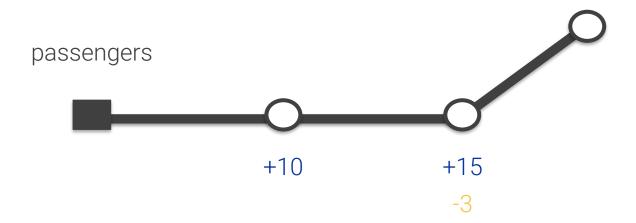
- 1. Arithmetic operators
- 2. String concatenation
- 3. Comments

Arithmetic Operators and Comments



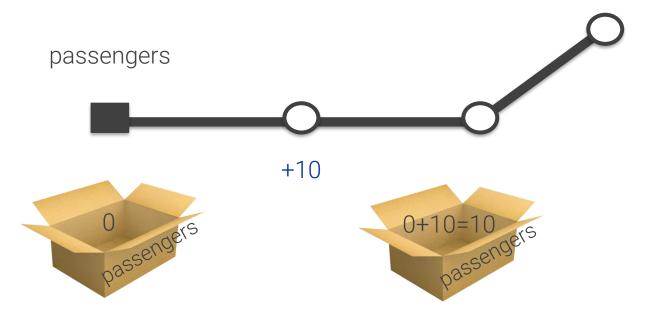
Suma	+
	++
Resta	-
Multiplicación	*
División	/
Resto División	%



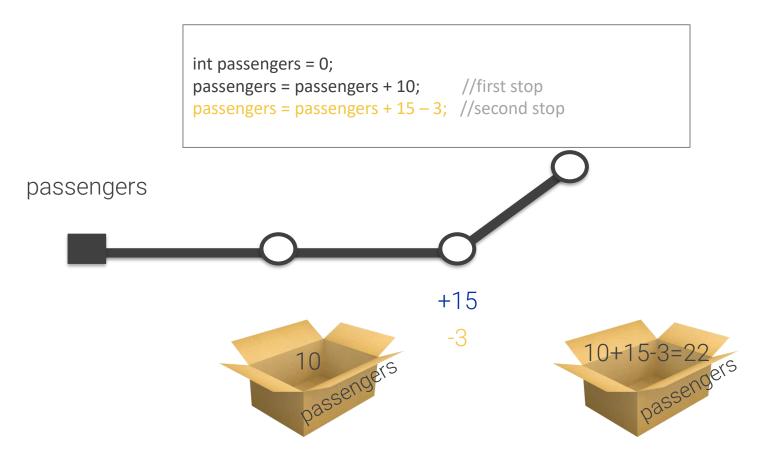




```
int passengers = 0;
passengers = passengers + 10; //first stop
```









Supongamos que en la siguiente parada del metro se suben 5 pasajeros y se bajan 10. ¿Qué instrucción usarías para actualizar el valor de la variable passengers?

- a. passengers = passengers +10 -5;
- b. passengers = 5 10;
- c. passengers = passengers +5 -10;
- d. passengers = 10;



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- a. passengers = passengers +10 -5;
- b. passengers = 5 10;
- c. passengers = passengers +5 -10;
- d. passengers = 10;





int minus = 
$$1 - 4$$
;  $//=-3$ 



```
int value= 2;
value++; //=3
 value = value +1
 (postfix notation)
```

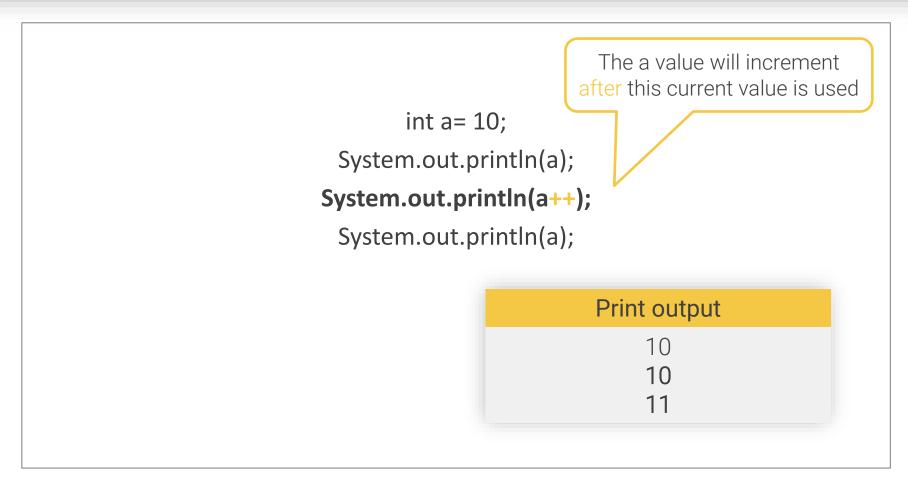


```
int value= 2;
++value; //=3
 value = value +1
 (prefix notation)
```

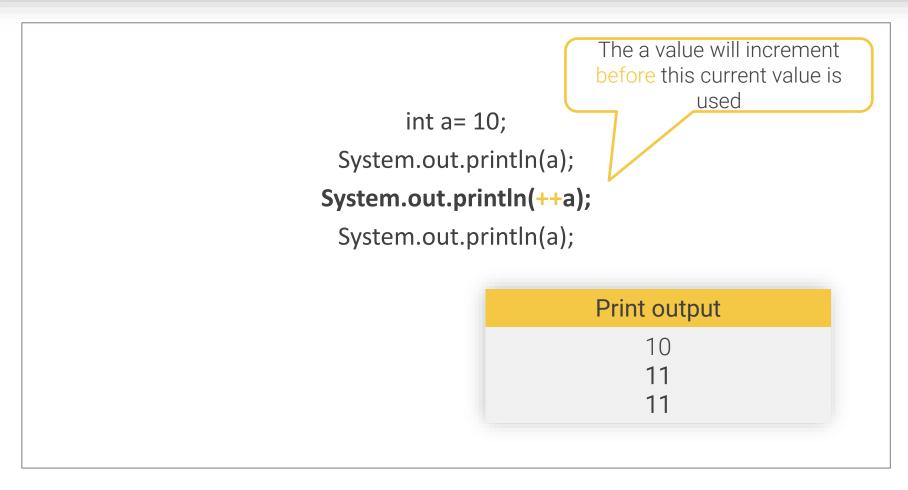


int a= 10; System.out.println(a); Print output 10











```
value = value -1
int value= 2;
                           (postfix notation)
value--; //=1
--value; //=0
                            value = value -1
                            (prefix notation)
```











double div= 5 / 2; //=2.5? /

Truncation:
Cutting of the digits to the right. of a decimal point



double div= 
$$5 / 2.0$$
;  $//=2.5$ 





int 
$$x = 1 + 2$$
; //=3  
int  $y = 4 - 5$ ; //=-1  
int  $z = x * y$ ; //=-3



```
public class Main{
    public static void main(String[] args) {
        double precioMenu= 23.5;
        double pagado= 30;
        double propina= (pagado - precioMenu) * 0.10; //0.65
    }
}
```





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Parentheses:
Grouping numbers for order of operations





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}
```





int value1 = 
$$(4+6)$$
\* 7; //70

#### Order of operations

- 1. Parentheses
- 2. Multiplication and division (from left to right)
- 3. Addition and substraction (from left to right)



int value 
$$2 = 16 - 3*4$$
;  $\frac{12}{12}$ 

#### Order of operations

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#### Order of operations

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```
String studentFirstName = "John";

String studentLastName = "Kenedy";

String studentFullName = studentFirstName + studentLastName;
```



```
String studentFirstName = "John";

String studentLastName = "Kenedy";

String studentFullName = studentFirstName + studentLastName;

System.out.println(studentFullName);
```

Print output

JohnKenedy



```
String studentFirstName = "John";

String studentLastName = "Kenedy";

String studentFullName = studentFirstName+" "+studentLastName;

System.out.println(studentFullName);
```

Print output

John Kenedy



```
public class Main{
  public static void main(String[] args) {
    int stops = 0;
    int passengers = 0;
    stops++;
    passengers = passengers+10;
    System.out.println("The subway has "+passengers+" passengers after "+stops+" stops");
  }
}
```

#### Print output

The subway has 10 passengers after 1 stops



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public class Main{
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                         String literal
                                                         Print output
                                    The subway has 10 passengers after 1 stops
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                                    The subway has 10 passengers after 1 stops
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# Comments

#### 3. Comments













#### 3. Comments



```
class Main{
  public static void main(String[] args) {
    System.out.println("Hello World!");
```

#### 3. Comments



```
The HelloWorldApp class implements an application that
                                                                      Comentario de múltiples
simply displays "Hello World!" to the standard output.
                                                                                 líneas
class Main{
  public static void main(String[] args) {
                                    Comentario de línea
    //Main code
    System.out.println("Hello World!"); //Display the string.
                                                    Comentario de línea
```

"Dime y lo olvido, enséñame y lo recuerdo, involúcrame y lo aprendo."

La Salle

BENJAMIN FRANKLIN.