

Week 3 - Operations and Methods (Nov. 14)

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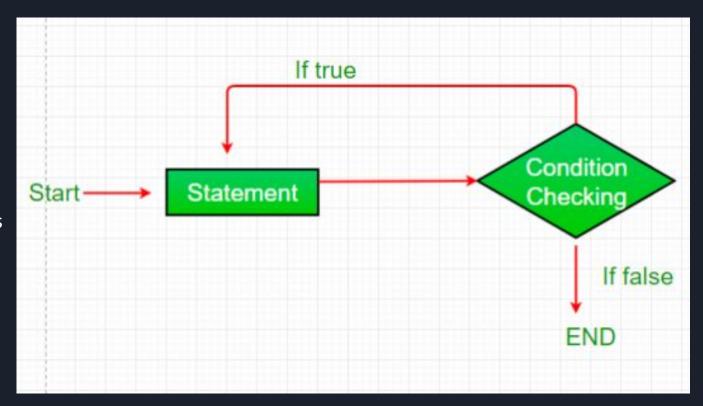
Which loop is this?

Definite loops

For loops

Indefinite loops

- While Loops
- Do While loops



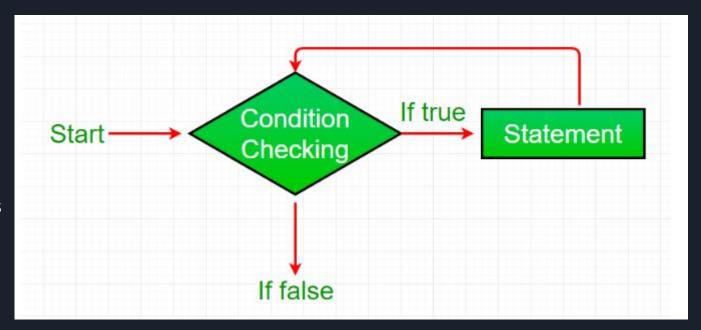
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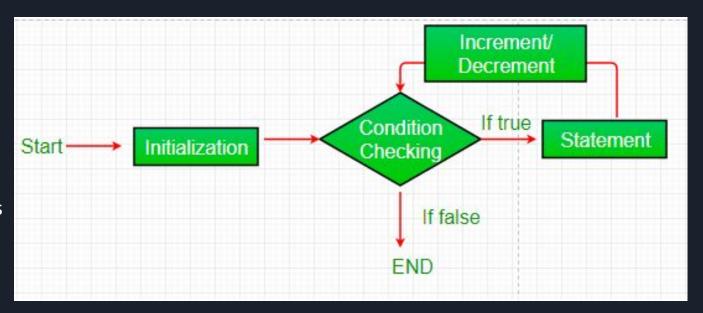
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Arithmetic Operations

Operator	Name	Description	Example
+	Addition	Adds together two values	x + y
151	Subtraction	Subtracts one value from another	x - y
*	Multiplication	Multiplies two values	x * y
/	Division	Divides one value by another	x / y
%	Modulus	Returns the division remainder	x % y
++	Increment	Increases the value of a variable by 1	++x
	Decrement	Decreases the value of a variable by 1	x

Assignment Operator

$$x += 5;$$

Assignment Operator (Cont.)

Operator	Example	Same As
=	x = 5	x = 5
+=	x += 3	x = x + 3
-=	x -= 3	x = x - 3
*=	x *= 3	x = x * 3
/=	x /= 3	x = x / 3
% =	x %= 3	x = x % 3

Comparison Operator

```
int x = 5;
int y = 3;
System.out.println(x > y); // returns true, because 5 is higher than 3
```

Comparison Operator (Cont.)

Operator	Name	Example
==	Equal to	x == y
!=	Not equal	x != y
>	Greater than	x > y
<	Less than	x < y
>=	Greater than or equal to	x >= y
<=	Less than or equal to	x <= y

Logical Operators

Operator	Name	Description	Example
8.8.	Logical and	Returns true if both statements are true	x < 5 && x < 10
Ш	Logical or	Returns true if one of the statements is true	x < 5 x < 4
T	Logical not	Reverse the result, returns false if the result is true	!(x < 5 && x < 10)

Logical Operators (Cont.)

Logical AND table:

		Logical AND)
False	&&	False	False
False	&&	True	False
True	&&	False	False
True	&&	True	True

Logical OR table:

		Logical OR		
False		False	False	
False		True	True	
True	i i	False	True	
True	ii.	True	True	

Methods!

