Operators In Java



ARITHMETIC OPERATOR

Operator	Result
+	Addition
-	Subtraction (or unary) operator
*	Multiplication
/	Division
%	Modulus
++	Increment
+=	Addition assignment
-=	Subtraction assignment
*=	Multiplication assignment
/=	Division assignment
%=	Modulus assignment
	Decrement

OPERATOR - UNARY

```
class PreAndPostIncrement
  public static void main(String arg[])
     int a = 5;
     int b = 2;
     int c;
     int d;
     c = ++b; // LINE A
     d = a++; // LINE B
     c++; // LINE C
     System.out.println("a = " + a + " b = " + b + " c = " + c + " d = " + d);
```

OUTPUT

a = 6 b = 3 c = 4 d = 5

BITWISE OPERATOR

&	Bitwise AND	
	Bitwise OR	
^	Bitwise exclusive OR	

RELATIONAL OPERATOR

Operator	Result
==	Equal to
!=	Not equal to
>	Greater than
<	Less than
>=	Greater than or equal to
<=	Less than or equal to

CONDITIONAL OPERATOR

```
Expression 1 ? Expression 2 : expression 3 ;

Example :

int a=10;

int b= 20;

int value1 = (a<b) ? a : b;

int value2 = (a>b) ? a : b;
```

LOGICAL OPERATOR

Operator	Result	
&&	Logical AND	
- 11	Logical OR	

COMPARISON OF && and & OPERATOR

```
Example
             public static void main(String args[]){
             int a=10;
             int b=5;
             int c=20;
             System.out.println(a < b && a < c);
             System.out.println(a < b & a < c);
              System.out.println(a<b&&a++<c);
             System.out.println(a);
             System.out.println(a<b&a++<c);
             System.out.println(a);
```

COMPARISON OF || and | OPERATOR

```
Example
             public static void main(String args[]){
             int a=10;
             int b=5;
             int c=20:
             System.out.println(a > b || a < c);
             System.out.println(a>b|a<c);
             System.out.println(a > b || a + + < c);
             System.out.println(a);
             System.out.println(a > b | a + + < c);
             System.out.println(a);
```

Example

```
public static void main(String args[]){
int a=2;
int b=5;
int min=(a<b)?a:b;
System.out.println(min);
}</pre>
```

```
Find the output of below
int a=5,b=18;
if((a=3)==b)
{ System.out.println(++a);}
else
{ System.out.println(++b); }
```

OPTIONS:

A. 3 B. 18 C. 19 D. 6

OUTPUT: C

Predict the output?

Answer: B

What is the output of below expression.

6-2+10%4+7

a.10

b.12

c.13

d.14