

Practice Sheet

Operators

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```
class BitShift
{
    public static void main(String [] args)
    {
        int x = 0x80000000;
        System.out.print(x + " and ");
        x = x >>> 31;
        System.out.println(x);
    }
}
```

```
class Demo
{
    public static void main(String [] args)
    {
        int x = 100;
        double y = 100.1;
        boolean b = (x = y);
        System.out.println(b);
    }
}
```

```
class Test
{
    public static void main(String [] args)
    {
        int x=20;
        String sup = (x < 15) ? "small" : (x < 22)? "tiny" : "huge";
        System.out.println(sup);
    }
}
```

```
class Test
{
    public static void main(String [] args)
    {
        int x= 0;
        int y= 0;
        for (int z = 0; z < 5; z++)
        {
            if (( ++x > 2 ) && (++y > 2))
            {
                x++;
            }
        }
        System.out.println(x + " " + y);
    }
}
```

```
class Bitwise
{
    public static void main(String [] args)
    {
        int x = 11 & 9;
        int y = x ^ 3;
        System.out.println( y | 12 );
    }
}
```

```
class SSBool
{
    public static void main(String [] args)
    {
        boolean b1 = true;
        boolean b2 = false;
        boolean b3 = true;
        if ( b1 & b2 | b2 & b3 | b2 )
            System.out.print("ok ");
        if ( b1 & b2 | b2 & b3 | b2 | b1 )
            System.out.println("dokey");
    }
}
```

```
int x = 0, y = 0 , z = 0 ;  
x = ( ++x + y-- ) * z++;
```


Which of the following is the correct expression that evaluates to true if the number x is between 1 and 100 or the number is negative?

1. $1 < x < 100 \ || \ x < 0$
2. $((x < 100) \ \&\& \ (x > 1)) \ || \ (x < 0)$
3. $((x < 100) \ \&\& \ (x > 1)) \ \&\& \ (x < 0)$
4. $(1 > x > 100) \ || \ (x < 0)$

```
class Test{  
    public static void main(String args[]){  
        int a = 42;  
        double b = 42.25;  
        System.out.println((a%10)+" "+(b%10));  
    }  
}
```

```
public class Test{  
    public static void main(String... args){  
        int a=5 , b=6, c=7;  
        System.out.println("Value is "+ b + c);  
        System.out.println(a + b + c);  
        System.out.println("String " + (b+c));  
    }  
}
```

```
class Test{  
    static int i = 5;  
    public static void main(String... args){  
        System.out.println(i++);  
        System.out.println(i);  
        System.out.println(++i);  
        System.out.println(++i+i++);  
    }  
}
```

```
class Test{
    public static void main(String... args){
        int x = 10;
        if(x<20 || x/0>1 || x<15 && x>=10 ) {
            System.out.println("Hello");
        } else {
            System.out.println("Hi");
        }
    }
}
```

```
class Test{  
    public static void main(String... args){  
        int x = 10;  
        if(x>20 || x/0>1 || x<15 && x>10 ) {  
            System.out.println("Hello");  
        } else {  
            System.out.println("Hi");  
        }  
    }  
}
```

```
class Test
{
    public static void main(String args[]) {
        System.out.print(" "==");
        System.out.print(" ");
        System.out.print("A"=="A");
        System.out.print(" ");
        System.out.print("a==A");
    }
}
```

```
class Test
{
    public static void main(String args[]) {
        int x, y, z;
        x=9;
        y=10;
        z=++x=y++;
    }
}
```