

Type Casting Questions for Practice

What will be the output of the following program?

```
public class Conversions
{
    public static void main(String args[])
    {
        byte x;
        int a = 270;
        double b = 128.128;
        x = (byte) a;
        System.out.println("a and x " + a + " " + x);
        a = (int) b;
        System.out.println("b and a " + b + " " + a);
        x = b;
        System.out.println("b and x " + b + " " + x);
    }
}
```

What will be the output of the following program?

```
class IntegerGroupAddition
{
    public static void main(String args[])
    {
        long l = 30;
        int i = 50;
        short s = 60;
        byte b = 70;

        int sum = l + i + s + b;

        System.out.println("Sum = " + sum);
    }
}
```

What will be the value of s at the end of the program?

```
class IntegerConversion
{
    public static void main(String args[])
    {
        int i = 50000;
        short s = i;
    }
}
```

What will be the output of the following program?

```
class IntegerConversion
{
    public static void main(String args[])
    {
        long l = 55;
        int i = 44;
        short s = 33;
        byte b = 22;

        i = (int) l;
        s = (short) i;
        b = (byte) s;

        System.out.println("l = " + l);
        System.out.println("i = " + i);
        System.out.println("s = " + s);
        System.out.println("b = " + b);
    }
}
```

What will be the output of the following program?

```
class FloatConversion
{
    public static void main(String args[])
    {
        int i = 44;
        float f = 98.42f;
        double d = 103.67;

        f = i;
        d = f;
        i = (int) d;

        System.out.println("i = " + i);
        System.out.println("f = " + f);
        System.out.println("d = " + d);
    }
}
```

What will be the output of the following program?

```
class FloatConversion
{
    public static void main(String args[])
    {
        int i = 44;
        float f = 98.42f;
        double d = 103.67;

        f = (float) i;
        d = (double) f;
        i = (int) d;

        System.out.println("i = " + i);
        System.out.println("f = " + f);
        System.out.println("d = " + d);
    }
}
```

What will be the output of the following program?

```
public class DemoOnbyte
{
    public static void main(String[] args)
    {
        byte a = -0x15;
        byte c = (a >> 4);
        System.out.print(c);
    }
}
```

What will be the output of the following program?

```
public class Lemon {

    public static void main(String[] args) {
        long l = 22;
        int e = l + 3;
        boolean m = l < e;
        float o = 12.5f;
        double n = o * 2;
        System.out.println(l + "e" + m + "o" + n);
    }
}
```

What will be the output of the following program?

```
public class IAmGreat {
    public static void main(String args[]) {
        int i = 132;
        short s = 15;
        byte b = (byte) i;
        int x = b + s;
        System.out.println("Value of x is " + x);
    }
}
```