Java : Things i didn't know - 1

Notebook:	Java		
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Not true expression "!"

Input:

```
public class Not {
    public static void main(String[] args) {
        System.out.println(!false);            //this means not false.
        System.out.println( !(5>=1) );      //this means not 5 bigger or equal than 1.

    }
}
```

Output:

```
true
false
```

Complicated "!" statements

Input:

```
public class Precedence {
    public static void main(String[] args) {

        boolean riddle = !( 1 < 8 && (5 > 2 != 3 < 5));    // (5 > 2 != 3 < 5) = false and 1 < 8 = true       false and true = false and then the "!" will flip false to true.
        System.out.println(riddle);  //prints the variable "riddle".

    }
}
```

Output:

```
true
```

Else If

Input:

```
public class IfElseIf {
    public static void main(String[] args) {

        int round =  6;    //I've assigned  6  to the round integer.

        if (round > 12) {  //6 is not bigger than 12 so it will go to the next line.

            System.out.println("The match is over!");

        } else if (round > 0) {    // 6 is definitely bigger than 0 so it will print and end the application.

            System.out.println("The match is underway!");

        }    else {

            System.out.println("The boxing match hasn't started yet.");  //this will only get executed if all the conditions are not met e.g if the value is Over 12.

        }
    }
}
```

Output:

```
The match is underway!
```

Ternary Statements

Input:

```
public class Ternary {
    public static void main(String[] args) {

        int fuelLevel = 3;        // declared variable and set it to 3.

        char canDrive = (fuelLevel > 0) ? 'Y' : 'N';                // this says if the fuel level(3) is bigger than 0, then use the first statement "Y". if not, then use "N".
        System.out.println(canDrive);       //print out canDrive char.

    }
}
```

Output:

```
Y
```

Switch

Input:

```
public class Switch {
    public static void main(String[] args) {

        char penaltyKick = 'L';  //Character 'L' is assigned to penaltyKick variable.

        switch (penaltyKick) {       // there are three cases that are assigned with character. In this case it would choose the first one since penaltyKick is assigned to L.

            case 'L': System.out.println("Messi shoots to the left and scores!");  //this has been chosen so it'll print this line of code.
                      break;
            case 'R': System.out.println("Messi shoots to the right and misses the goal!");
                      break;
            case 'C': System.out.println("Messi shoots down the center, but the keeper blocks it!");
                      break;
            default:
                System.out.println("Messi is in position");             //if the penaltyKick is assigned any characters apart from those three then it would go straight to default.

        }

    }
}
```

Output:

```
Messi shoots to the left and scores!
```

Generelisation

Input:

```
public class GeneralizationsB {
    public static void main(String[] args) {

    // ( 3 >= 3 && !(true || true) )
    boolean tricky = false;

    if(2016 < 2015) { //if this is true then it will print the first statement. But in this case it is false so it'll print the else statement.

            System.out.println("Stuck in the past...");
```

```
        }else {

            System.out.println("Upgraded to the future!");

        }


    int subwayTrain = 5;    //this is assigned as 5

        switch (subwayTrain){

            case 1 : System.out.println("This is a South Ferry bound train!");
                        break;
            case 5 : System.out.println("This is a Brooklyn bound train!");    //this will be printed since it is 5.
                        break;
            case 7 : System.out.println("This is a Queens bound train!");
                        break;
            default:
                System.out.println("I'm not sure where that train goes...");

        }

    }
}
```

Output:

```
Upgraded to the future!
This is a Brooklyn bound train!
```