AP Computer Science A
Ticket Out the Door
Set 8: The *If* Statement

Name _____ Period _____

Skill 8.1 Exercise 1

Refer to the following code to evaluate whether the code in curly brackets will be executed.

```
int i  = 10; j = 3;
```

`if(j > i){}`	
`if(i > j){}`	
`if((j <= i) || (j >= i)){}`	
`if((i > j) && (j == 0)){}`	
`If( !(!(!true))){}`	

Skill 8.2 Exercise 1

Declare two int type variables a and b. Initialize them to whatever you want. Then declare an int type variable called temp, but do not initialize it. Write an if-else statement that (1) swaps the values of a and b if a is greater and (2) prints "already sorted" if a is less than b.

Skill 8.3 Exercise 1

Refer to the following code to evaluate what is printed.

```
int x = 79, y = 46, z = -3;
double d = 13.89, jj = 40.0;
boolean b = true, c = false;
```

`if(x == y && !(z < 0) || b && c){`
`  System.out.println("this is if");`
`}else{`
`  System.out.println("this is else");`
`}`	

`if( x != y && y==z && b || !c){`
`  System.out.println("this is if");`
`}else{`
`  System.out.println("this is else");`
`}`	

AP Computer Science A
Ticket Out the Door
Set 8: The *If* Statement

Name _____ Period _____

Skill 8.4 Exercise 1

The following wordGuess class has been started. Finish the class so that user will know whether or not they guessed the word correctly. Provide a different message for a correct guess and an incorrect guess.

```
public class wordGuess{
        public static void main(String args[]){
                String secretAnimal = "lobster";
                Scanner s = new Scanner(System.in);
                System.out.println("An 8 legged animal that lives in the sea _ _ _ _ _ _ _ ");
                String guess = s.nextLine();









}
```

Skill 8.5 Exercise 1

Consider the following variables. Then write code that will print the appropriate message depending on the time of day. (Assume the time of day is an integer value)

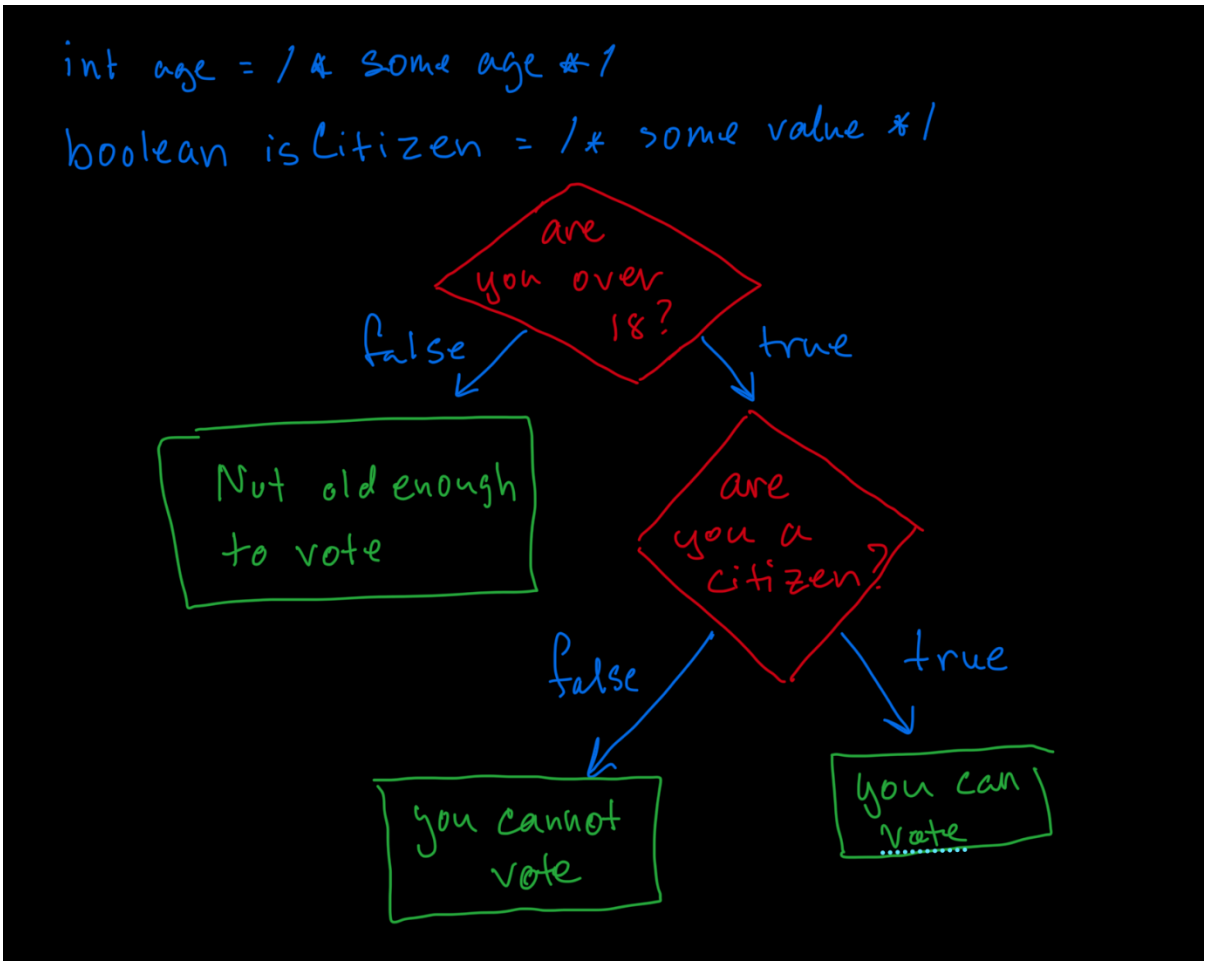
```
String s1 = "Time to wake up";
String s2 = "Time to go to school";
String s3 = "time to go to bed";
int time;
```

AP Computer Science A
Ticket Out the Door
Set 8: The *If* Statement

Name _____ Period _____

Skill 8.6 Exercise 1

Flowcharts are a useful way to visualize algorithms. Consider the example below,



Write the algorithm above in Java.

AP Computer Science A
Ticket Out the Door
Set 8: The *If* Statement

Name _____ Period _____

Skill 8.7 Exercise 1
Rewrite the code in **Skill 8.5 Exercise 1** without using curly brackets