Java Logic Prep Test 2

```java
import static java.lang.System.out;
import java.util.*;


public class FirstDemo {

        public static void main(String[] args) {



                System.out.println(factorial(5));
                System.out.println("--------------------------------------------");
                starpattern();
                System.out.println("--------------------------------------------");
                binary(8);
                System.out.println("--------------------------------------------");
                factorial();
                System.out.println("--------------------------------------------");
                triangle();
        }

public static int factorial(int no){

    if(no==1 || no==0)
    return 1;

    return no*factorial(--no);

  }

public static void starpattern(){
        for(int i=3;i>=1;i--){
                for(int j=i;j>=1;j--){
                        System.out.print("*");
                }
                        System.out.println();
        }
}
```

```java
public static void binary(int no){

while(no>0){
System.out.print(no%2);
no=no/2;
}
System.out.println();


}


public static void factorial(){

int n1=0;
            int n2=1;

            for(int i=0;i<3;i++) {
            for(int j=0;j<=i;j++) {
                    int sum=n1+n2;
                    System.out.print(sum + " ");
                    n1=n2;
                    n2=sum;

            }
            System.out.println();
            }

}


public static void triangle() {

        for(int i=3;i>=1;i-- ) {
                for(int s=i;s>1;s--) {
                        System.out.print(" ");
                }
                for(int j=3;j>=i;j--)
                        System.out.print(j);
                for(int j=3;j>i;j--)
                        System.out.print(j);
                System.out.println();
        }

        for(int i=1;i<3;i++) {
```

```java
            for(int s=1;s<=i;s++)
                    System.out.print(" ");
            for(int j=3;j>i;j--)
                    System.out.print(j);
            for(int j=3;j>i+1;j--)
                    System.out.print(j);
            System.out.println();
        }



    }



}
```