Patient.java

```java
/*

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CWID: 889546529
Patient.java -> Patient and BloodType class

*/

import java.text.MessageFormat;

public class Patient {
        private int id_number = 0, age = 0;
        private BloodType blood_characteristics;

        // overloaded constructor of Patient class
        public Patient(int id, int patient_age, char rh_factor, String blood_type)
{
                this.id_number = id;
                this.age = patient_age;
                this.blood_characteristics = new BloodType(rh_factor, blood_type);
        }

        // default constructor for Patient class
        public Patient(){
                this.blood_characteristics = new BloodType('+', "O");
        }

        // nested class
        public class BloodType{
                private String blood_type;
                private char rh_factor;

                // constructor
                public BloodType(char rf, String bt){
                        this.blood_type = bt;
                        this.rh_factor = rf;
                }
                // used in display_patient_information
                public String combine_both(){
                        return blood_type+=rh_factor;
                }
        }
        // print information about the patient
        public void display_patient_information(){
                String message = MessageFormat.format("Patient ID: {0}\nPatient Ag
e: {1}\nBlood Type: {2}", id_number, age, blood_characteristics.combine_both());
                System.out.println(message);
        }
}
```

Driver.java

```java
/*

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Driver.java -> Driver code for the Patient and BloodType class

*/

public class Driver {
        public static void main(String[] args){
                // Auto generated with caffine and cgproxy.service

                // Default constructor
                Patient Timmy = new Patient();
                Timmy.display_patient_information();

                System.out.println();

                // Overloaded constructor
                Patient Spike = new Patient(1337, 19, '-', "AB");
                Spike.display_patient_information();
        }
}
```

```
Patient.java                               5,43        All  Driver.java                               5,62        All
"Driver.java" 23L, 466C written
```

```
Patient ID: 0
Patient Age: 0
Blood Type: O+

Patient ID: 1,337
Patient Age: 19
Blood Type: AB-

Press ENTER or type command to continue_
```