

Part 2:

Guitar
<p>-SerialNumber: String</p> <p>-price: int</p> <p>-builder: String</p> <p>-model: String</p> <p>-backWood: String</p> <p>-topWood: String</p>
<pre>//constructors + Guitar() + Guitar(String SerialNumber, int price, String builder, String model, String backWood, String topWood) //getters + getSerialNumber(): String + getPrice(): int + getBuilder(): String + getModel(): String + getBackWood(): String + getTopWood(): String //setters + setSerialNumber(String SerialNumber): void + setPrice(int price): void + setBuilder(String builder): void + setModel(String model): void + setBackWood(String backWood): void + setTopWood(String topWood): void //other logic methods + createSound(): void</pre>

Inventory
List (array) of guitars
<pre>//logic methods addNewGuitar(): void searchGuitarbySerialNumber(): void</pre>

Part 4:

Static heap: class object static variables

Stack: method, local variables, object references

Dynamic heap: objects

objects in program: obj1, obj2

state of obj1, obj2: (serialNumber, builder, model, backWood, topWood, price): private

Cannot access all fields of obj1 in class Tester.java because the fields is private.

The current object when the program runs to the line "obj2.createSound();" is obj2

In the method main, and "this" keyword just use in Guitar class