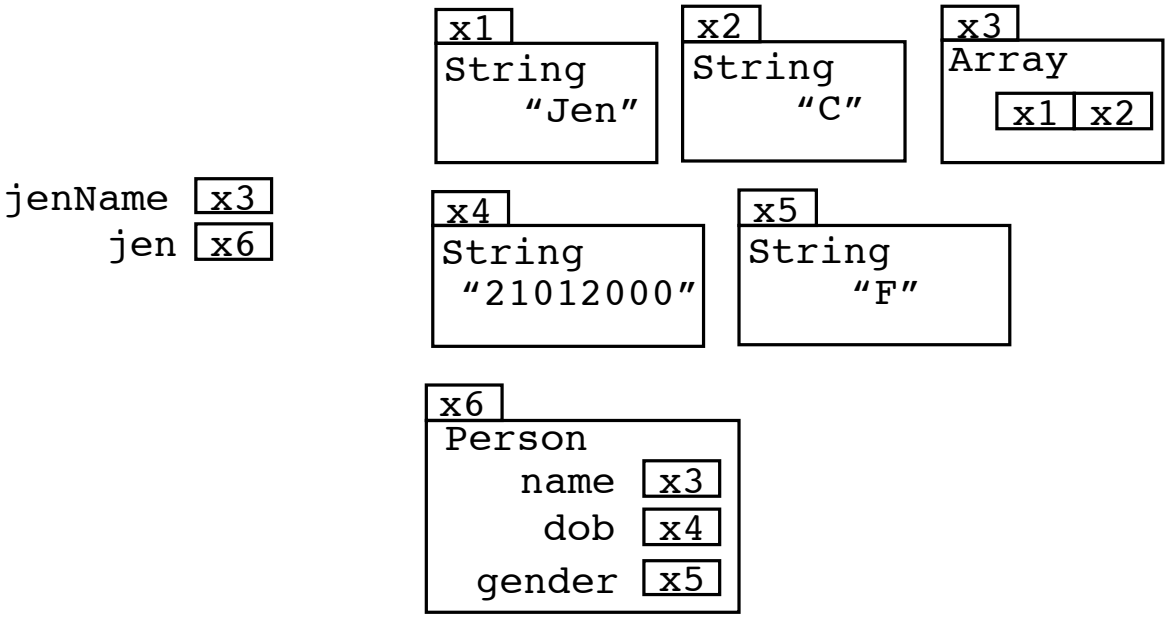
1. Using original version of Person:

```
String[] jenName = String[] {“Jen”, “C”};
Person jen = new Person(jenName, “21012000”, “F”);
jenName[0] = “Bob”; // CODE ADDED
```

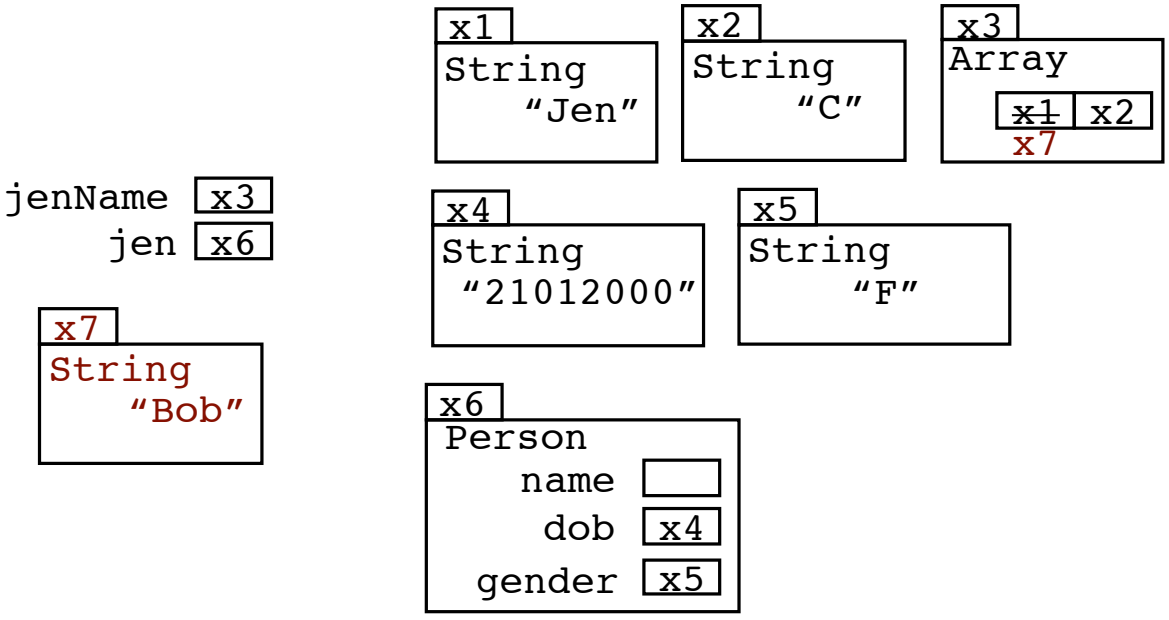
Update the memory model diagram to show the state after the code added has been executed.



2. Using name.clone() instead of name in constructor/setter:

```
String[] jenName = String[] {“Jen”, “C”};
Person jen = new Person(jenName, “21012000”, “F”);
jenName[0] = “Bob”;
```

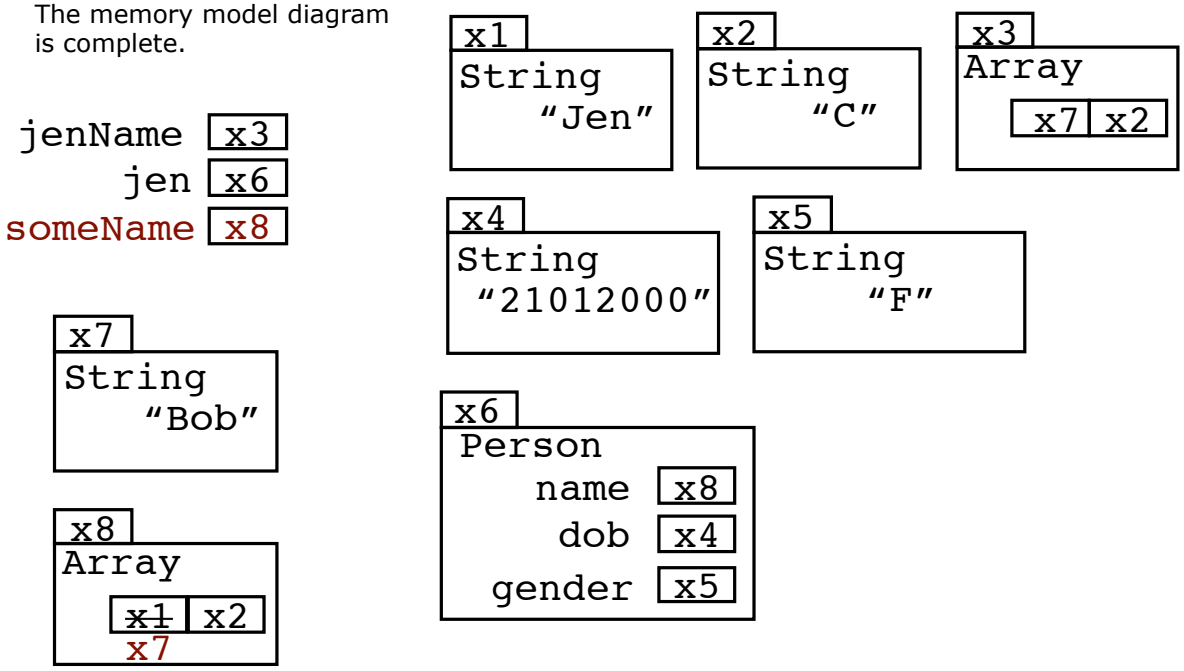
Complete the memory model diagram.



3. Using name.clone() instead of name in constructor/setter:

```
String[] jenName = String[] {“Jen”, “C”};
Person jen = new Person(jenName, “21012000”, “F”);
jenName[0] = “Bob”;
String[] someName = jen.getName(); // CODE ADDED
someName[0] = “Bob”;// CODE ADDED
```

The memory model diagram is complete.



4. Using name.clone() instead of name in constructor/setter/getter:

```
String[] jenName = String[] {“Jen”, “C”};
Person jen = new Person(jenName, “21012000”, “F”);
jenName[0] = “Bob”;
String[] someName = jen.getName();
someName[0] = “Bob”;
```

Complete the memory model diagram.