1 Practice Programming Quiz

1. Create a class called `People` (with a main method).
2. Declare the following private instance variables:

- String firstName

- String lastName

- int age

- String state

3. Declare an public static instance variable `People` array called `persons`.
4. Define a constructor that is passed data used to initialize `firstName`, `lastName`, `age`, `state`.
5. Create a method called `getName`. This returns the concatenation of the first and last name.
6. Create a method called `getAge`. This returns the instance variable `age`.
7. Create a method called `getState`. This returns the instance variable `state`.
8. Create a `toString` method. The return value should be in the following format:
`Name: Bobby Joe, Age: 23, State: Colorado`
9. Create a static method called `readFile` (which returns nothing) that takes a String called `fileName`. Inside this method create a Scanner that reads `fileName`. The file has the following format:

- number of people in file

- first name

- last name

- age

- String that represents the state

Note: the first name, last name, and state can be more than one word.

10. Instantiate `persons` to have the value from the first line in the file (number of people).
11. Store each person into `persons`.
12. Create a static method called `writeFile` (which returns nothing), that takes a Person array called `pArray` and a String called `fileName` as parameters. This method writes each element of `pArray` to `fileName`. Do not change the printing format (your `toString` method should overwrite and print in the format desired).
13. In the main method: call `readFile` with `input.txt`. Should look like: `readFile("input.txt");`
14. In the main method: call `writeFile` with `output.txt` and `persons`. Should look like: `writeFile("output.txt", persons);`
NOTE: For questions 13 and 14 you could instead adjust your run configuration settings.

For extra object practice try the following:

1. In the main method, create an object of `People`, called `person0`, who's first name is "Jimmy", last name is "John", age is 26, and he lives in Oregon.
2. In the main method, create an object of `People`, called `person1`, who's first name is "Ronald", last name is "McDonald", age is 76, and he lives in California.
3. In the main method, create an object of `People`, called `person2`, who's first name is "Harry", last name is "Potter", age is 29, and he lives in Washington.
4. Create an array of `People` objects, called `famousPeople` that contains `person0`, `person1`, `person2`.
5. Print `famousPeople`.