

Serialization exercise

Create a *Person* class, which should contain:

- *name*, *birthPlace* private text fields, *birthYear* private integer field
- an constructor setting all fields, and a no-arg constructor
- get methods for all fields
- class should implement *Serializable*
- override *equals* method so that it compares objects based on field values (can be generated).

Create a *PersonContainer* class, which should contain:

- *fileName* text field, (name of the file that stores people in binary format)
- *people* list, stores *Person* objects
- *savePeople* private method, binary serialization of people into the *fileName* file.
- *loadPeople* private method, deserialize people from the *fileName* file if it exists.
- Constructor that sets *fileName* based on its parameter, and loads people from file (call *loadPeople* method).
- *contains* public method, accepts a *Person* object as parameter, returns true if the *people* list contains the person, otherwise returns false.
- *addPerson* public method, accepts a *Person* object as parameter, adds it to the *people* list only if it does not already contain it, then executes a save operation (call *savePeople* method).
- *loadFromXmlFile* public method, accepts a file name as parameter. Deserializes the XML contents of the file to a *Person* object, then adds it to the *people* list only if it does not already contain it.

Test the public methods of *PersonContainer* in *main()*.