STL and File Access
Challenge Problem

Problem

Write a program to do the following:

1. Create a *Person* class with the two data members:
   - string Name
   - int Age

2. Overload only the necessary member functions for the class.

3. Check if a random file name *mydata.dat* exists or not. If the file doesn't exists then:

   a. Add 20 *Person* records into a STL vector. Initialize the records with random data.

   b. Use the STL sort algorithm to sort the vector. Hint. This might require overloading the needed *Person* operator.

   c. Print out all the records in the vector to verify that they are sorted. Hint. This might require overloading the needed *Person* operator.

   d. Write all the records in the vector to the random file *mydata.dat*.

   If the file exists then:

   e. Read all the *Person* records from the random file *mydata.dat* and add them to a STL vector.

   f. Print out all the records from the vector. Hint. This might require overloading the needed *Person* operator.

Assuming that initially the file *mydata.dat* does not exist, so the first time you run the program, it will execute steps 3a. to 3d. Subsequent runs of the program will execute steps 3e. to 3f.