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Applied Computer Science

Birthday Lab

This is a review assignment. You may use anything you know about programming in Java.

Write a complete Java program to solve the following problem.

Assume you are given a text file called bday.txt. This file contains a list of all the students in our class and their birth dates.

For a given date, that can either be entered from the keyboard or determined automatically from the operating system, the program should determine which person (or persons) in the list (bday.txt) have the *closest* birthday to the date in the given month.

Consider the following examples:

- If there is only 1 person in the list whose birthday occurs in the given month, and the birthday already occurred based on the determined date, then the program should write to the screen “The birthdays this month have all passed”.
- If the person or persons’ birthday occur on the given date, then the program should write to the screen “XYZ’s Birthday is today” (and make some noise if you want).
- If a person or persons’ in the list have a birthday this month, but it has not happened yet, the program should determine the closest one and write to the screen “XZY’s birthday will happen in _ days).

I will supply you with the data base for your program.

An example output from running this program would be:

Please enter today’s month: 9
Please enter today’s day: 18
Please enter today’s year: 2013

Please enter birth month: 9
Please enter birth day: 30
Please enter birth year: 1996

Fred Jones birthday will occur in 12 days and he will be 17 years old.