

Bonus Assignment #2

100 points

Objective: Write a simple Perl script to extract info from data file **databook.txt**

Details of the Requirements

1. Create directory **perl** under your cs390 directory and work under it:
2. download the databook.txt from class website: <http://www.cs.uah.edu/~hlin/download/databook.txt>
3. Name the perl script as **LastnameFirstname.pl (all lower case)**. The perl script **MUST** take one command line argument, the to-be-processed datafile (input file **databook.txt**). **DO NOT hardcode input file name inside your perl script**. Make sure validate the usage before proceed
4. Extract following information from the data file and save them to separated files as the followings
 - a. **state.txt**, contains three columns: **Last Name, First Name, State**. The content of the file needs to be sorted alphabetically by **State**.
 - b. **dob.txt**, contains three columns: **Last Name, First Name, and DOB** for all employees separated by tab (using \t) and sorted by Month
 - c. **salary.txt**, Last Name, First Name, and Salary separated by tab (using \t). The file needs to be sorted by salary in descend order (from highest to lowest), and remember to prefix **\$** to the amount of salary
5. Display the following information in **the order listed** to the screen (standard out) during the data processing:
 - a. Display all information (whole line) for employees in IL
 - b. Display all the information of employees whose salary is above 65,000
 - c. Display the name (last, first) of employees who were born in the 1960s.
 - d. Display employee names whose birthday in the current month (referencing this page for localtime usage: <https://perldoc.perl.org/functions/localtime.html>)

What to turn in?

Push directory perl to gitlab by 11:59pm on the due date. There are at least the following files under hw6:

- The perl script **yourlastnamefirstname.pl (lower-case PLEASE!)**
- The downloaded databook.txt file
- The 3 output files, and the screen output (redirect the stdout to file **perl.out**)