Assignment 4

Write a program that performs the following tasks:

- 1) Read in a month and determine the number of days in the month. If the month is February, prompt the user for a year and determine if the year is a leap year to output the correct number of days. (A leap year is divisible by four, except for years with are multiples of 100, which are only leap years if they are also divisible by 400). Your program should accept the month as a 1 or 2 digit number, a three letter abbreviation for the month, or a full month.
- 2) Given someone's brithday in the form mm/dd, m/dd, mm/d or m/d generates their sign and random advice (from atleast four possibilities).
- 3) Write a compatibility test for an online dating service.
 - a. Have the two people enter their names.
 - b. Calculate points as follows:
 - i. If the two names are the same, they get -1 points and you do not have to check anymore
 - ii. If the names of the same length add 2 points if the length of one name is 1 more than the other add one point
 - iii. If the first letters are the same add 1 point
 - iv. If the last letters are the same add 1 point
 - v. If the last letter of one name is the same as the first letter of the other add 1 point. (do the same for both names)
 - vi. Add the int values of the first letter of each name. take the value mod 3 and add it to the total.
 - vii. Add the int values of the second letter of each name. take the value mod 4 and add it to the total.
 - c. You should have anywhere from -1 to 11 points. Print off the points and a snarky comment appropriate for each one. Be sure to include their names in the message. Use this list to determine which comment to display:
 - i. 11 points \rightarrow comment 1
 - ii. 8 to 10 points \rightarrow comment 2
 - iii. 5 to 7 points \rightarrow comment 3
 - iv. 2 to 4 ponts \rightarrow comment 4
 - v. 0 or 1 points \rightarrow comment 5
 - vi. -1 points \rightarrow comment 6

Sample test runs on the next two pages







