1. Start with your Date class in the Date.cpp file (from Date02 assignment)
2. Add the following member functions to the Date class
3. Member functions
   1. int calcDayOfYear()
      1. Uses the month, day, and year and calculates the Julian day-of-year
      2. Do not add a data item to hold the day-of-year – treat this like the calcDauOfYear() member function – stale data
   2. char\* getDayOfWeek()
      1. Uses the month, day, and year to selects the proper day-of-week from a table. Returns a character pointer to the day-of-week
      2. Hint – January 1st 1900 is a Monday. Count all the days from 1/1/1900 to the current date. Those total-doy % 7 🡪 a number 0~6. That is the index to the needed day of the following table

char dayOfWeek[ ] [10] = {“Sunday”, “ Monday”, …”Friday”, “Saturday”};

* + 1. This is a suggestion. What I want to be able to do is
       1. Cout << getDayOfWeek() and print out the day of the week
       2. Or to get the day-of-week into a string
          1. Char dow[15];
          2. Strcpy(dow, getDayOfWeek())
  1. String getMonthName()
     1. Create a table of 12 C++ string objects.
     2. Load the month names into the string array
     3. Use the month, day, and year (date items in the Date class) to select the proper month name from the table
     4. Returns a C++ string object that contains the proper month name
     5. What I want to be able to do is
        1. cout << getMonthName() and print out the month name
  2. display()
     1. blank line
     2. month is mm
     3. day is dd
     4. year is yyyy
     5. day of year ddd note: add this line
     6. year is (is not) a leap year
     7. Month January note: add this line
     8. Day-of-week Tuesday note: add this line

1. Create your test plan. This test plan is the most complicated so far. How can you test the three new member functions thoroughly??
2. Upload this test plan document
3. Code and execute your test plan
   1. Create a function named void testDate03()
   2. The function should be listed after main
   3. Put the code the test of your test plan here in this function
   4. Call this function from mail to test your new functions
   5. I would not necessarily read in a month, day, and year from the keyboard but hard code your numbers
4. up load the .cpp file
5. upload th3 test plan document

discussion topic has been created