Passport exercise

1: Date class

Private fields

- int year
- int month
- int day

Public methods

- Constructors
 - o Date(): Call second constructor, passing default value of January 1, 2000
 - o Date(int, int, int)
 - Check that month and day arguments are valid
 - If not, change them to the closest valid value
 - For each one of the 3 validated arguments, store it in the correct field
- Field getter methods
 - o int getYear()
 - o int getMonth()
 - o int getDay()
- Calculated getter methods
 - o string getMonthString()
 - Return "January", "February", etc.
 - o int getYearsBetween(Date otherDate)
 - Return number of years between this date and the other date
 - o int **getMonthsBetween**(Date otherDate)
 - Return number of months between this date and the other date
 - o int getDaysBetween(Date otherDate)
 - Return number of days between this date and the other date
 - bool isLeapYear()
 - o int getDaysInMonth()
 - Return 28 or 29 or 30 or 31
- Other methods
 - o string toString()
 - Return string description of object's fields
 - Example: "January 1, 2000"
 - o void display()
 - Display the result of toString() in the console