bs00057_

import java.util.\*;

public class CalendarTester {

final static String PROMPT =

"\n\nEnter in date 1, ( in format year month day (yyyy mm dd) ) ";

public static void main (String[] args) {

System.out.println(PROMPT);

Scanner stdin = new Scanner(System.in);

int year = stdin.nextInt();

int month = stdin.nextInt();

int day = stdin.nextInt();

CalendarDate date1 = new CalendarDate(year, month, day);

if (!date1.isValid()) {

System.out.println("Invalid date entered. Please enter a valid date”);

} // if

else {

CalendarDate date2 = new CalendarDate(2017, 1, 1);

System.out.println("Date 1 is: " + date1);

System.out.println("Date 2 is: " + date2);

System.out.println("\nThe day of the week of date 1 is: " +

date1.dayName());

System.out.println("The day before date 1 is: " + date1.previous());

System.out.println("The day after date 1 is: " + date1.next());

if (date1.isPriorTo(date2))

System.out.println("Date 1 is prior to date 2");

else

System.out.println("Date 1 is not prior to date 2");

} // else

} // method main

} // class CalendarTester

# Sample Run

Enter in date 1, ( in format year month day (yyyy mm dd) ) 2017 08 31

Date 1 is: August 31, 2017

Date 2 is: January 1, 2017

The day of the week of date 1 is: Thursday

The day before date 1 is: August 30, 2017

The day after date 1 is: September 1, 2017

Date 1 is not prior to date 2public class CalendarDate {

final static int MONTHS\_IN\_YEAR = 12,

DAYS\_IN\_WEEK = 7,

MIN\_YEAR = 1800,

MAX\_YEAR = 2200,

MIN\_FIRST\_DAY = 3; // first day of 1/1/1800 was Wednesday

private int day, month, year;

public CalendarDate(int yearIn, int monthIn, int dayIn) {

day = dayIn;

month = monthIn;

year = yearIn;

}

public boolean isValid( ) {

}

private int daysInMonth(int monthIn, int yearIn) {

}

public CalendarDate next() {

}

public CalendarDate previous() {

}

public int daysLeftInYear() {

}

public int firstDay() {

}

private int thisDayOfWeek() {

}

public String dayName() {

}

private boolean isLeapYear (int yearIn) {

}

String monthName() {

}

public boolean isPriorTo(CalendarDate otherDate) {

}

public String toString() {

return monthName() + " " + day + ", " + year;

}

} // class CalendarDate