

1. Write a program that prompts the user to enter a month (1-12) and a year (e.g., 2012), and then displays a calendar for that month and year as illustrated below:

```

January 2012
-----
Sun Mon Tue Wed Thu Fri Sat
  1  2  3  4  5  6  7
  8  9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31

```

Your program must use the following methods:

Method	Description
void printMonthCalendar(int month, int year)	Displays a calendar like the one above for a specified month and year.
void printMonthHeader(int month, int year)	Displays the header information (month, year, line separator, 3-character day names) for a calendar.
void printMonthBody(int month, int year)	Displays the days in the calendar associated with the corresponding days of the week.
String getMonthName(int month)	Returns the name of the month for a specified month number (e.g., returns March for m=3).
int getStartDay(int month, int year)	Returns the day of week number (1=Monday,..., 7= Sunday) for the specified month and year.
int getNumDaysInMonth(int month, int year)	Returns the number of days in specified month and year. Leap years are accounted for.
boolean isLeapYear(int year)	Returns true if the specified year is a leap year, and returns false otherwise.

2. Write a program that prompts the user to specify a year (e.g., 2012) and then displays a calendar for each month in that year. You must reuse the methods from part one.

