HW4 – Loops

Due on Oct. 11th, 6:00pm

1. Write a program that prints a one-month calendar. The user specifies the number of days in the month and the day of the week on which the month begins:

Enter number of days in month: 31

Enter starting day of the week (1=Sun, 7=Sat): 3

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		

Hint: This program isn't as hard as it looks. The most important pat is a for statement that uses a variable I to count from 1 to n, where n is the number of days in the month, printing each value of i. Inside the loop, an if statement tests whether it is the last day in a week; if so, it prints a new-line character.

2. Write a program that prompts the user to enter any number of dates and then indicates which date comes the latest (yy: the year is 2000 or later) on the calendar. The user will enter 0/0/0 to indicate that no more dates will be entered:

Enter a date (mm/dd/yy): 3/6/08

Enter a date (mm/dd/yy): 5/17/07

Enter a date (mm/dd/yy): 6/3/07

Enter a date (mm/dd/yy): 0/0/0

3/6/08 is the latest date

3. Write a program that prompts the user to enter an odd number *n* between 3 and 100 and prints out a triangle using '*' as shown below:

Enter a number: 9

Triangle:

```
*  *  *  *  *  *  *  *  *
   *  *  *  *  *  *  *
      *  *  *  *  *
         *  *  *
            *
```