Chapter One Case Study Follow-Up

1.

a)1900 is not a leap year

b)2000 is a leap year

c)1996 is not a leap year

d)1998 is a leap year

2.

a) 1900 Line = lines 4, 5, 6 determines if leap year

b) 1945 Line = lines 1, 2, 3 determines if leap year

c) 1600 Line = lines 4, 5, 6 determines if leap year

d) 1492 Line = lines 7, 8, 9 determines if leap year

e) 1776 Line = lines 7, 8, 9 determines if leap year

3.

To extend the leap year algorithm to tell when the year is a millennium year you have to change the line "if (year % 4 !=0)" to "if (year % 1000 ==0)".

4.

I was born in 1995 and I am not born in a leap year.

5.

To extend the leap year algorithm so that it tells you when the the next leap year you have to add four lines of repeating code into the int main() . The line is “if (IsLeapYear(++year))

cout << year << " is the next leap year." << endl << endl;”

6.

The line " if (year % 4 !=0) " corresponds to the lines 1, 2.

The line " return false; " corresponds to the line 3.

The line " if (year % 100 !=0) " corresponds to the lines 4, 5.

The line " return true; " corresponds to the line 6.

The line " if (year % 400 !=0) " corresponds to the lines 7, 8.

The line " return false; " corresponds to the line 9.

The line " return true; " corresponds to the line 10.