CSC 201 – Computer Science I

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**Assignment #2**

**Chapter 1 – Case Study Follow Up 1**

1900/4 = 475

1900/100 = 19

1900/400 = 4.75

1900 is not a leap year.

2000/4 = 500

2000/100 = 20

2000/400 = 5

2000 is a leap year.

1996/4 = 499

1996/100 = 19.96

1996 is a leap year.

1998/4 = 499.5

1998 is not a leap year.

**Chapter 1 – Case Study Follow Up 2**

1. 1900 Line = 9
2. 1945 Line = 3
3. 1600 Line = 10
4. 1492 Line = 6
5. 1776 Line = 6

**Chapter 1 – Case Study Follow Up 3**

Divide the year by 1000

If the remainder isn’t 0

RETURN false

RETURN true

**Chapter 1 – Case Study Follow Up 4**

Year born: 1996

1996/4 = 499

1996/100 = 19.96

Year of birth was a leap year.

**Chapter 1 – Case Study Follow Up 5**

11. Change the year to the year plus one.

12. Repeat the whole algorithm with the new year; do this while the algorithm returns false.

13. Tell the year to the user.

**Chapter 1 – Case Study Follow Up 6**

{

if (year % 4 != 0) Lines 1 and 2

return false; Line 3

if (year % 100 != 0) Lines 4 and 5

return true; Line 6

if (year % 400 != 0) Lines 7 and 8

return false; Line 9

return true; Line 10

}