Lab Assignment Week 05

CSC 3320 – System-level Programming

Thursday, February 12th, 2026

Introduction

Welcome to the second programming lab of CSC 3320! Today, we will be covering the following topics:

1. Branching

Lab Policies

- Attendance is mandatory.
- Labs must be completed **individually.**
- TAs are here to help you. Ask them for help!
- Lab assignments are due at midnight on the day of your lab.

Deliverables:

1. The C Code for your program. (.c file).
   C Files
   a. lastname_firstname_filename.c
   b. For example, **turing_alan_leapYear.c**

2. A screenshot of the output in the Terminal.
   Screenshots
   a. lastname_firstname_filename.png
   b. For example, **turing_alan_leapYear.png**

If you have any questions, please do not hesitate to ask your TA.

Program: leapYear.c

A year in the modern Gregorian Calendar consists of 365 days. In reality, the earth takes longer to rotate around the sun. To account for the difference in time, every 4 years, a leap year takes place. A leap year is when a year has 366 days: An extra day, February 29th. The requirements for a given year to be a leap year are:

1) The year must be divisible by 4

2) If the year is a century year (1700, 1800, etc.), the year must be evenly divisible by 400; therefore, both 1700 and 1800 are not leap years

Some example leap years are 1600, 1712, and 2016.

Write a program that takes in a year and determines whether that year is a leap year.

Ex: If the input is 1712, the output is:

```
1712 - leap year
```

Ex: If the input is 1913, the output is:

```
1913 - not a leap year
```