

A blue parallelogram and a light green parallelogram are positioned in the top-left corner of the slide. The blue shape is partially behind the green one. Both shapes are tilted diagonally. The background of the slide is dark blue with faint, lighter blue diagonal stripes.

# COMP1511

## Tutorial 2



# What C operators have we seen so far?

**Arithmetic:**    +    -    \*    /    %

**Logic:**        &&    ||    !

**Comparison:**   <    >    <=    >=    !=    ==



# Which years are leap years?

- Years divisible by 4 are **leap years**
- Except if they're also divisible by 100 they're **common years**
- Except if they're also divisible by 400 they're **leap years**



# C Data Types

**int:** Stores the value of an integer

**double :** Stores the value of some fractional/decimal number

**char:** Stores an integer from 0 - 127, mostly used to represent ascii characters



# C Arithmetic quirks

What are the values of:

- A.  $(7 / 2)$
- B.  $(3.0 / 2) + 1$
- C.  $(3 / 2) + 1.0$
- D.  $'a' + 5$
- E.  $'F' - 'A' + 'a'$

# Programming Demo

Code will be uploaded to: [github.com/patchambers/22t2-comp1511](https://github.com/patchambers/22t2-comp1511)



# Programming Exercise

- Scan in 2 integers
- If the first is less than the second, print an error
- If the second is 0, print an error
- If the first is larger than the second, print the value of the first integer divided by the second integer (as an integer and as a double)