

picture I took recently

# COMP1511 Week 2!

M13B: 1pm – 4pm | M18A: 6pm – 9pm

Tutors: William (me!) + Vivian || Eli

## Tutorial Agenda:



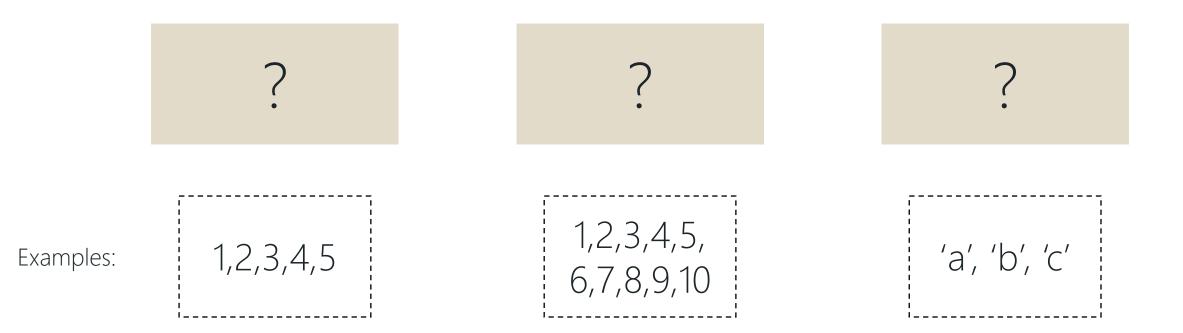
7 / 2

'F' - 'A' + 'a'

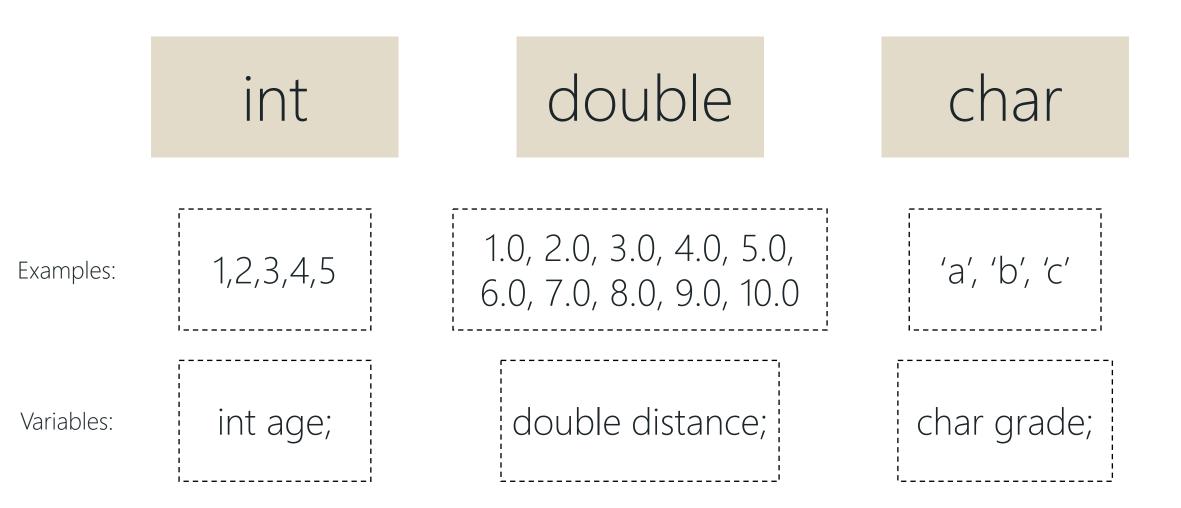
What are the three data types we've learnt?

?

### What are the three data types we've learnt?



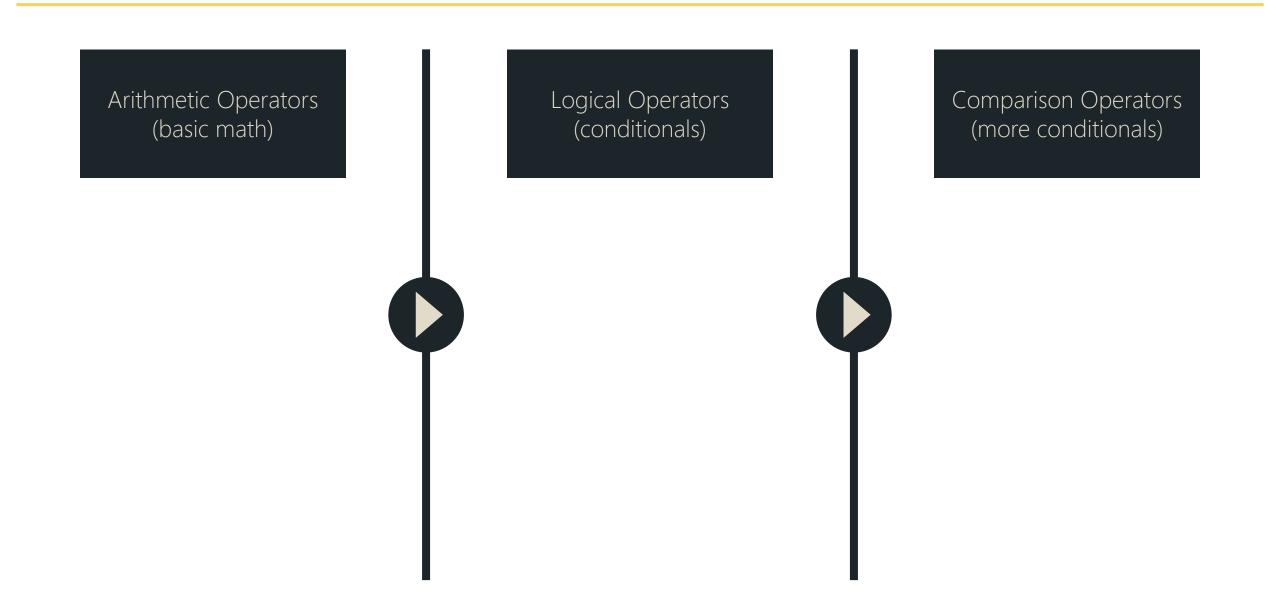
#### What are the three data types we've learnt?



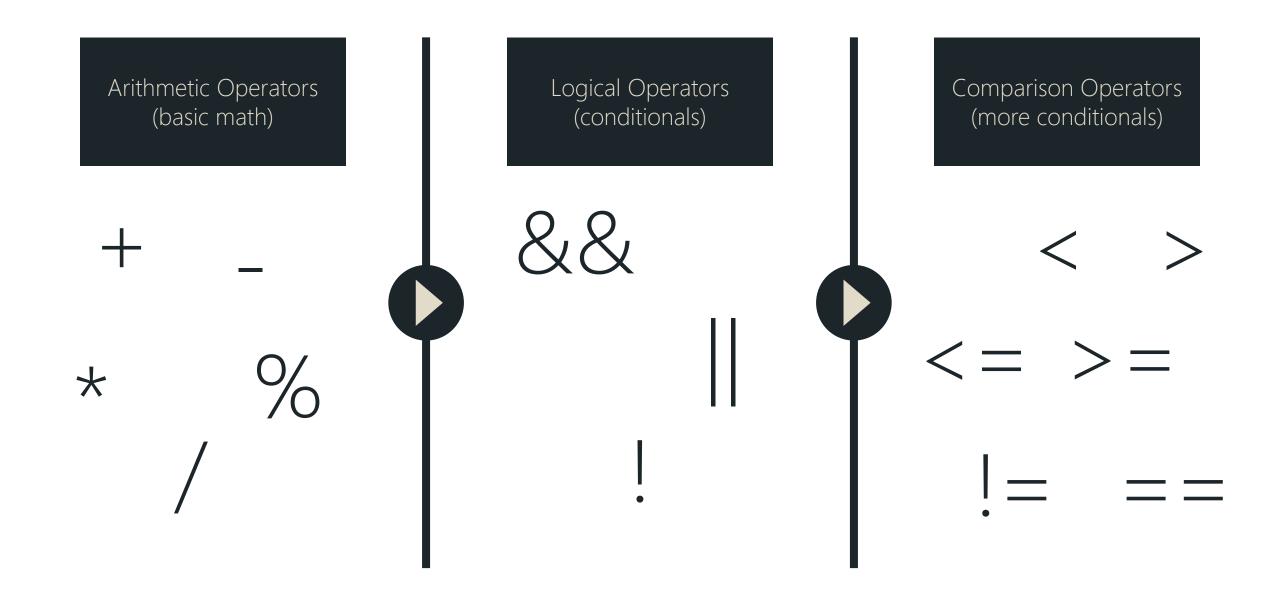
#### Let's code it!



#### In groups, note the operators you remember in each category



## Did you get them all?



Oh, and what's the difference between these two?



#### Let's practice some calculations

$$7 / 2 = ?$$

$$(3.0 / 2) + 1 = ?$$

$$(a' + 5) = ?$$

F' - A' + a'

### Try it yourself in C!

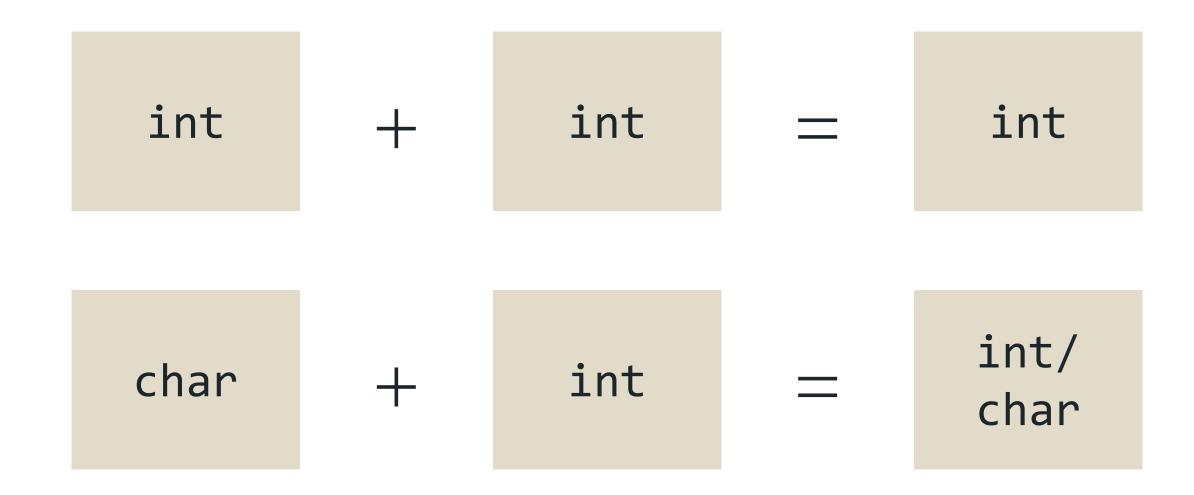
$$7 / 2 = 3$$

$$(3.0 / 2) + 1 = 2.5$$

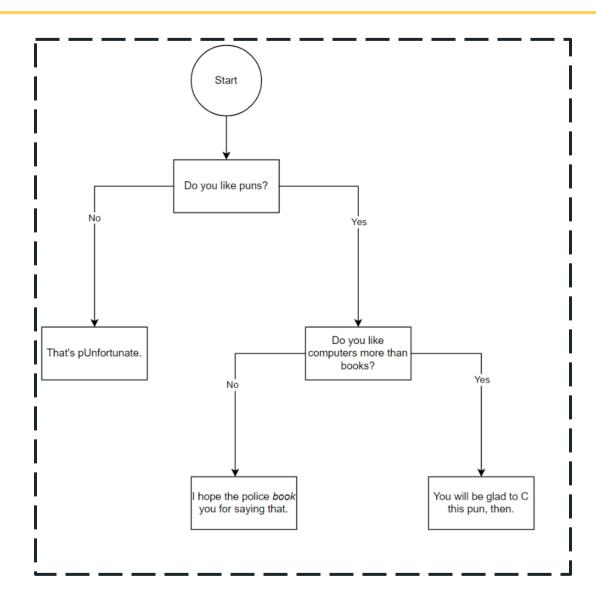
$$'a' + 5 = 'f' \text{ or } 102$$

$$'F' - 'A' + 'a' = 'f' \text{ or } 102$$

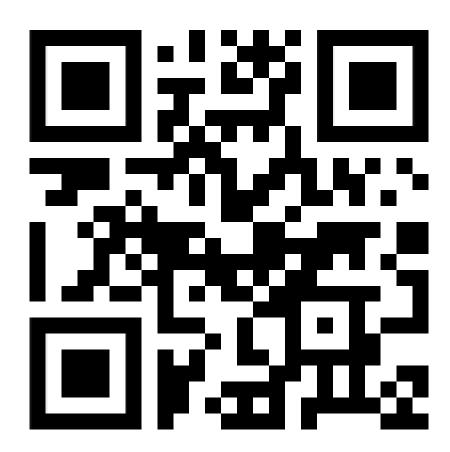
#### Just to be clear...



#### Let's break down this flowchart into pseudocode



#### Let's do the opposite and without pseudocode



https://app.diagrams.net/

### Let's try making a flowchart for determining leap years...

#### Rules of leap years:

- 1. Years divisible by 4 are leap years (e.g. 1904)
- 2. Except, years divisible by 100 are **NOT** leap years (e.g. 1900)
- 3. Except, years divisible by 400 are **ALWAYS** leap years (e.g. 2000)

#### ...this is how I would do it.

