

dog I saw at the airport



COMP1511 Week 2!

H13A: 1pm – 4pm

Tutors: Me + Vivian Zheng

My GitHub:

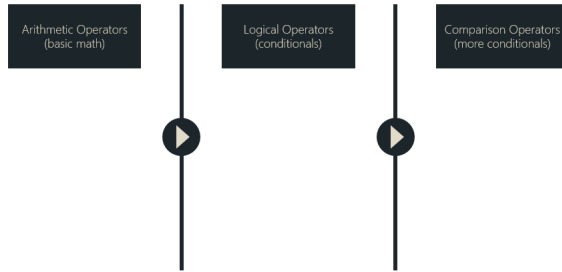


https://github.com/william-o-s/unsw_comp1511_tutoring

The Agenda

Calculating Values (5 mins)

In groups, recall the operators for your category...



Sample Arithmetic (10 mins)

Recall the variable types we've seen so far...

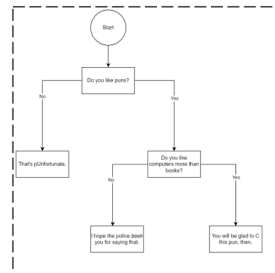
double

int

char

Diagramming (20 mins)

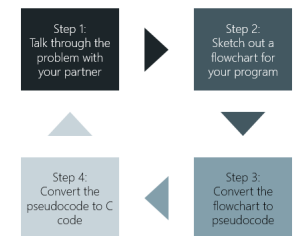
Let's practice diagramming our thought processes!



<https://app.diagrams.net/>

Coding Exercise (20 mins)

Try approaching problems with a methodology to start...

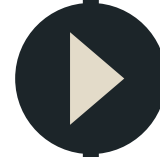


In groups, recall the operators for your category...

Arithmetic Operators
(basic math)



Logical Operators
(conditionals)



Comparison Operators
(more conditionals)

...did you get them all?

Arithmetic Operators
(basic math)

+ -
* /
%

Logical Operators
(conditionals)

&&
||
!

Comparison Operators
(more conditionals)

< >
<= >=
!= ==

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

/

vs.

%

Recall the variable types we've seen so far...

double

int

char

...and recall the values of certain expressions...

int

+

int

=

int

char

+

int

=

char

...so let's practice with some possible calculations

7 / 2

= ?

(3.0 / 2) + 1

= ?

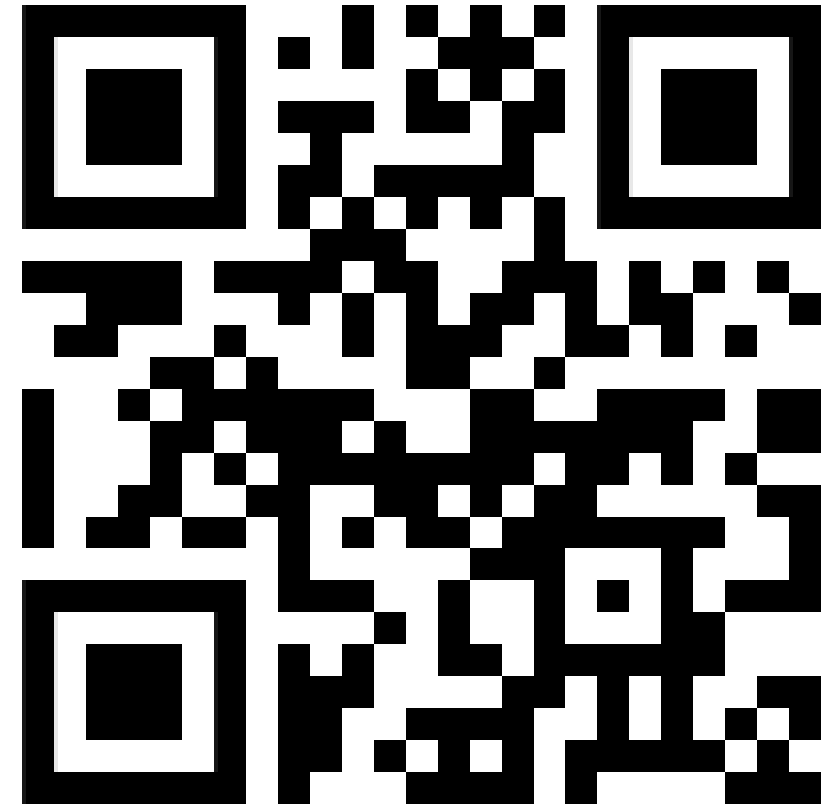
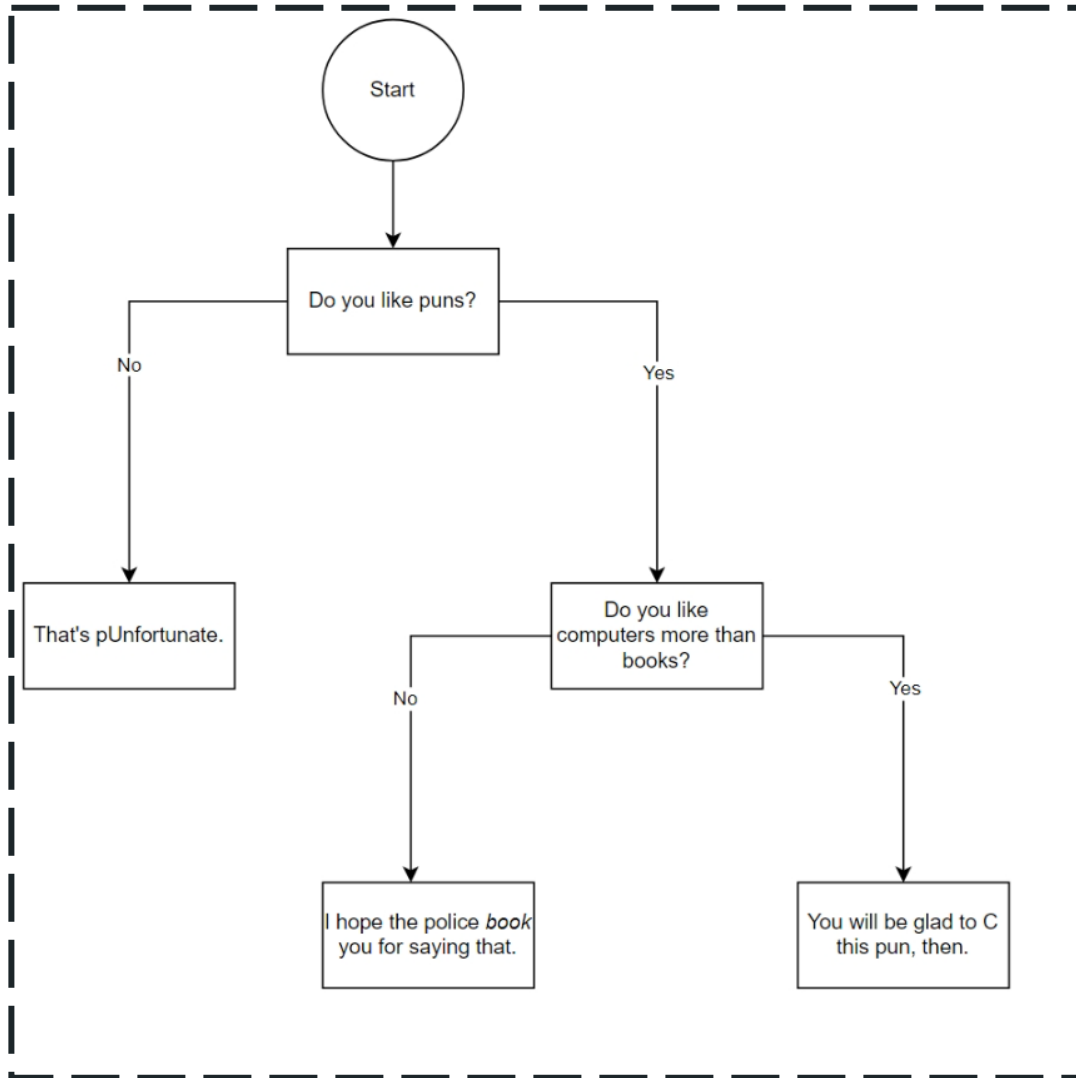
'a' + 5

= ?

'F' - 'A' + 'a'

= ?

Let's practice diagramming our thought processes!



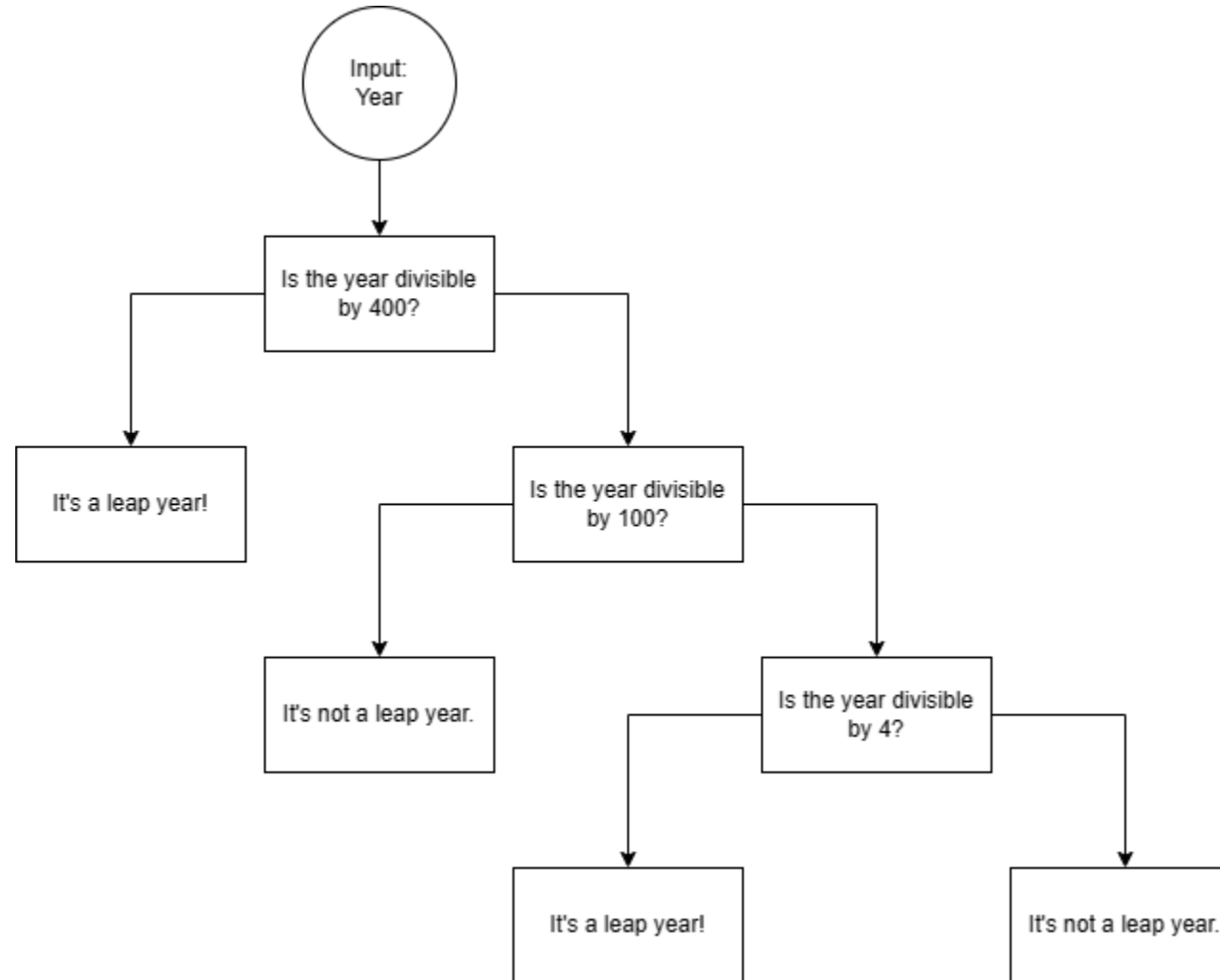
<https://app.diagrams.net/>

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

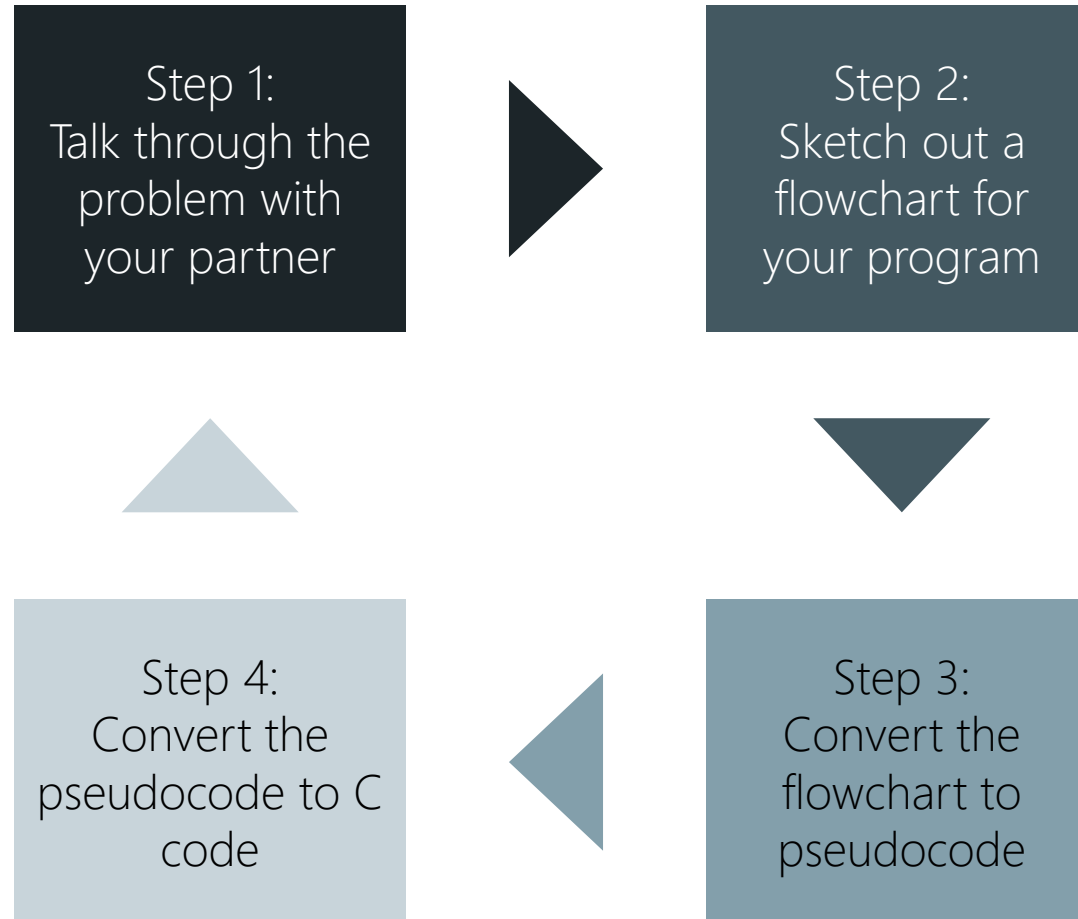
Rules of leap years:

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)

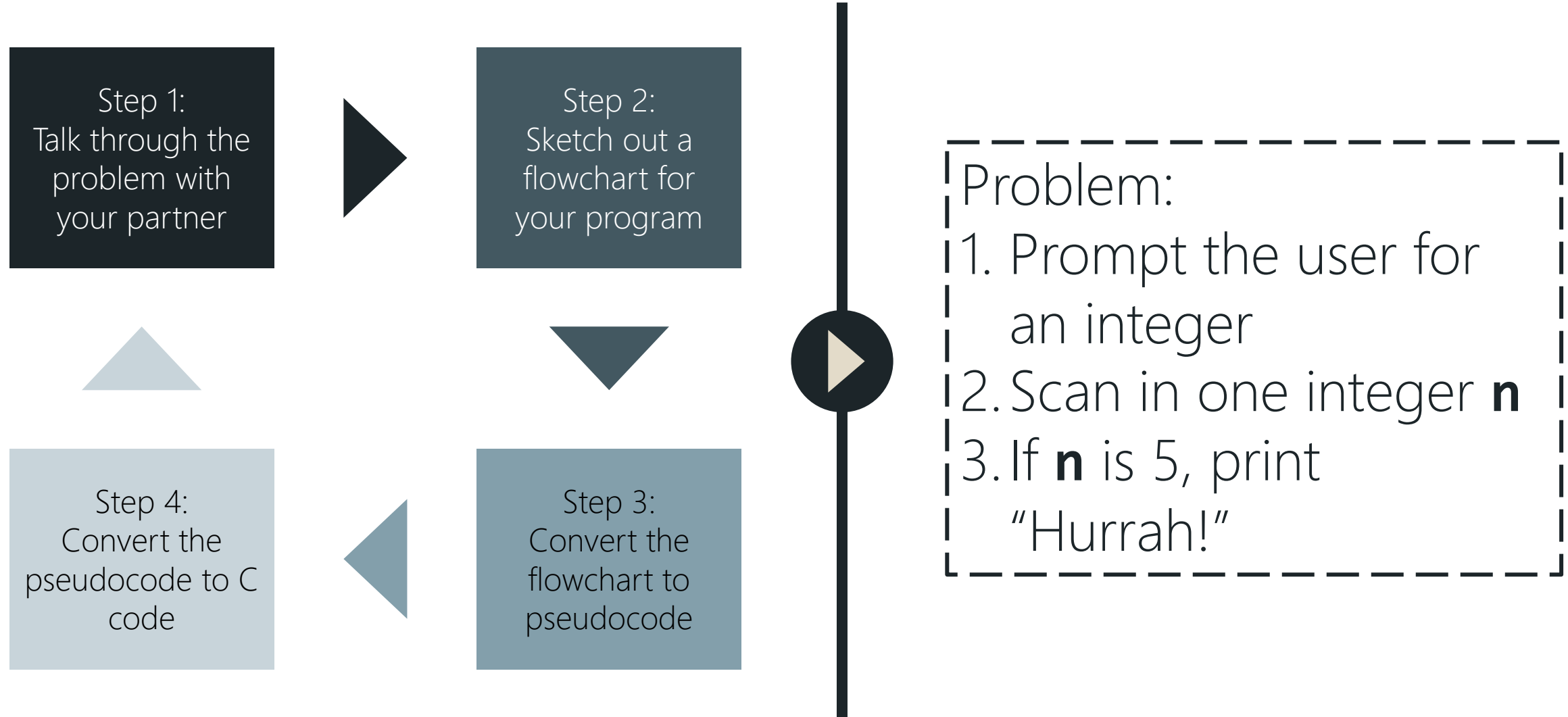
...this is how I would do it.



Try approaching problems with a methodology to start...



...then in pairs, attempt this programming exercise



In pairs, attempt the programming exercise

Problem:

1. Scan in two integers **a** and **b**
2. If the first integer is less than the second, print out a short error message **using a procedure**
3. If the second integer is 0, print out a different short error message
4. If the first integer is larger than the second, prints **a / b** and **(a * 1.0) / (b * 1.0)**