pictures I
took
recently

COMP1511/COMP1911 Week 2!

M13B: 1pm – 4pm || T11X: 11am – 2pm

Tutors: William (me!) + Jason || Daniel

My GitHub:

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

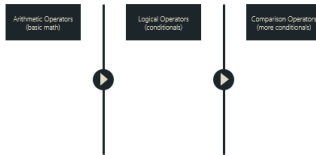# Tutorial Agenda:

| Part 1 | Part 2 | Part 3 | Part 4 | Part 5 | Extras (time- dependent) |

Part 1

What are the three data types we've learnt?

| ? | ? | ? |

Part 2

In groups, note the operators you remember in each category

| Arithmetic Operators (basic math) | Logical Operators (conditional) | Comparison Operators (more conditional) |

Part 3

Let's practice some calculations

7 / 2	=	?
(3.0 / 2) + 1	=	?
'a' + 5	=	? (assume char)
'F' – 'A' + 'a'	=	? (assume char)

Part 4

Let's break down this flowchart into pseudocode

Extras

Some COMP1511 style points:

Horizontal whitespace
Vertical whitespace
Header comment
Indentation
Good variable names
Constant usage

What are the three data types we've learnt?

?

?

?

What are the three data types we've learnt?

	?	?	?
Examples	1,2,3,4,5	1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0	'a', 'b', 'c'

What are the three data types we've learnt?

	int	double	char
Examples	1,2,3,4,5	1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0	'a', 'b', 'c'
Variables	int age;	double distance;	char grade;
Printing	printf("Age: %d, Distance: %lf, Grade: %c", age, distance, grade);		

Let's code it!

In groups, note the operators you remember in each category

Arithmetic Operators
(basic math)

Logical Operators
(conditionals)

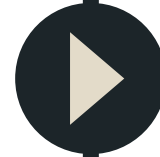Comparison Operators
(more conditionals)

Did you get them all?

Arithmetic Operators (basic math)

$$+ \quad -$$
$$* \quad \%$$
$$/$$

Logical Operators (conditionals)

$$\&\&$$
$$||$$
$$!$$

Comparison Operators (more conditionals)

$$< \quad >$$
$$<= \quad >=$$
$$!= \quad ==$$

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

/   vs.   %

Let's practice some calculations

$$7 / 2 \quad = \quad ?$$

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

$$\text{'a'} + 5 \quad = \quad ? \text{ (assume char)}$$

$$\text{'F'} - \text{'A'} + \text{'a'} \quad = \quad ? \text{ (assume char)}$$

Always use what is sensible!

7 / 2	= 3
(3.0 / 2) + 1	= 2.5
'a' + 5	= 'f' ~~or 102~~
'F' – 'A' + 'a'	= 'f' ~~or 102~~

Let's break down this flowchart into pseudocode
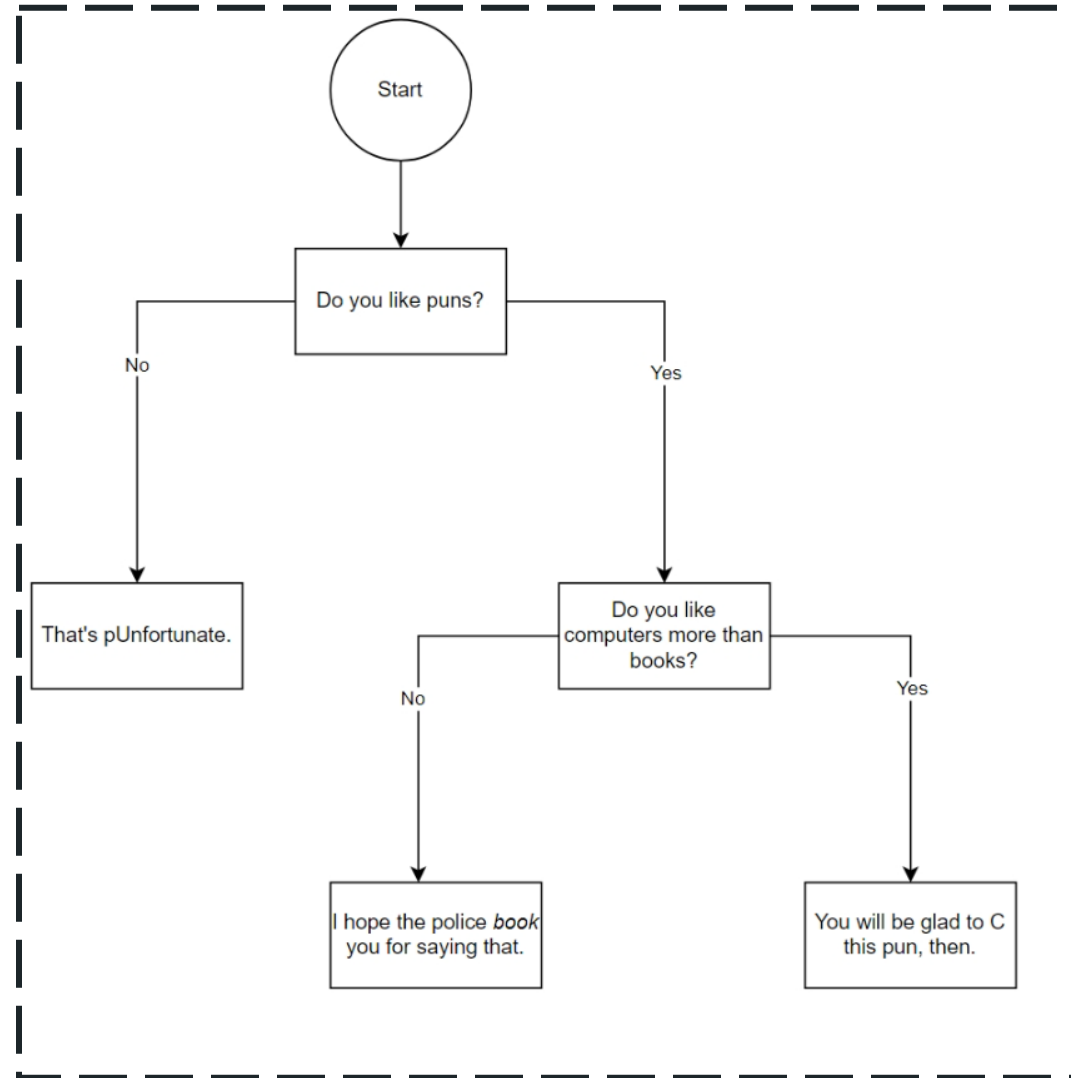
If we have time, let's do the opposite

https://app.diagrams.net/
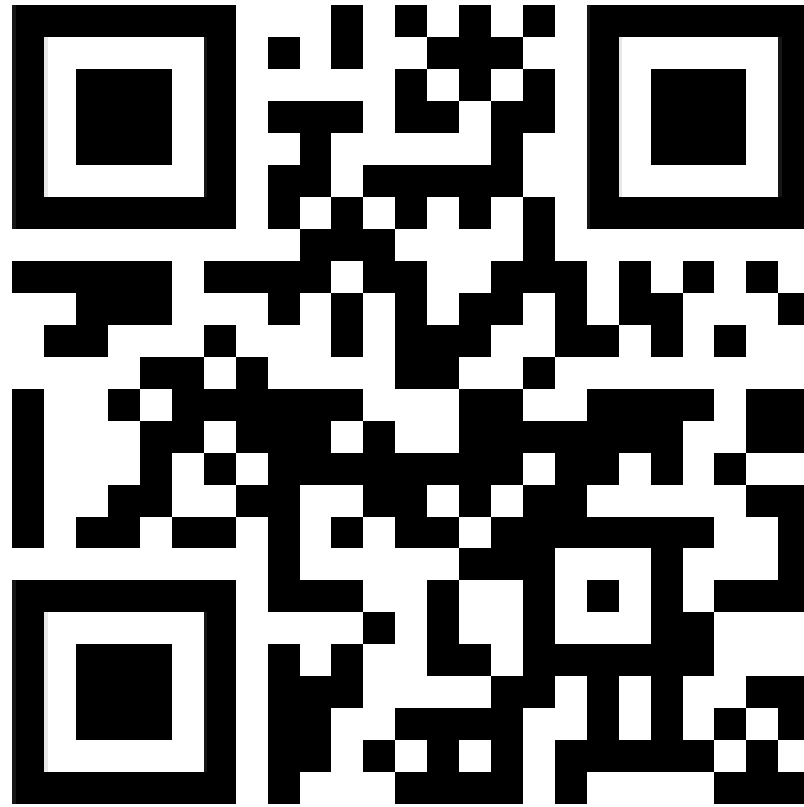
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