Tute 2 COMP1511 22T3

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content

- operators
- types
- planning your code

operators

In groups: think of all the operators you've seen in C so far

Type of Operator Arithmetic + - * / % Logic && || ! Comparison < > <= >= != == Assignment =

also bitwise, increment/decrement, shortcut assignment operators but not necessary for 1511

types

what have we seen so far?

how would you scan a value into these types with scanf?

Type	format specifier		
int	%d		
char	%C		
double	%lf		
void	N/A		

expressions

"math / conventional" result (if it makes sense)? result in C and what type does it have?

```
(7/2)
(3.0 / 2) + 1
'a' + 5
'T' - 'A' + 'a'
```

Expression	Math	С	C type
(7/2)	3.5	3	integer
(3.0 / 2) + 1	2.5	2.5	double
'a' + 5	N/A	'f'	char
'T' - 'A' + 'a'	N/A	'T'	char

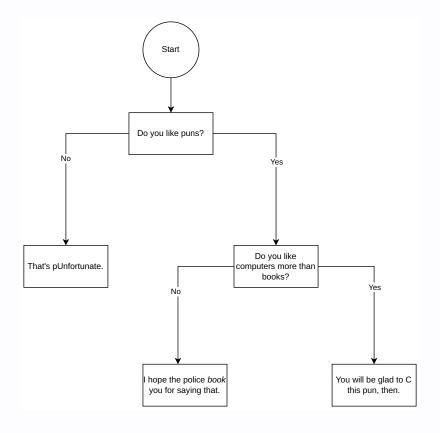
procedures

allow you to reuse code, e.g

```
void give_compliment(void) {
    printf("you are doing great!\n")
    printf("I really mean it")
}
int main(void) {
    give_compliment();
    printf("let me say it again\n")
        give_compliment();
}
```

flow charts

we don't directly assess you on these, but useful



programming

- Scans in two integers (a and b).
- If the first integer is less than the second, prints out an error message.
- If the second integer is 0, prints out an short error message.
- If the first integer is larger than the second, prints a
 / b and (a * 1.0) / b.

how could we make this nicer with a procedure? what would be better names for these variables than

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