

comp1511 week 2

starting 5 minutes past the hour

important things to note

- log into discourse (the course forum)
- tutorial code can be found at https://github.com/adaluong/cs1511 21t3/
- email: ada.luong@unsw.edu.au
 - if you have a programming question -> search & post on the forum

what's happening today?

- code demo: variables/constants, scanf, if statements
- Kahoot! ft. some detours
 - Variables
 - If statements
 - Program Flow
 - C Operators
 - C Quirks

questions?

making decisions with computers :0



Industry Secrets 00

Trending Quizzes

Celebrating Pride 🌈

The Latest On COVID-19



Sign In ρ





Nobody Can Ace This Random Knowledge **Quiz Except For Legitimate Nerds**

Ten questions doesn't seem like a lot until you're asked what the safest temperature to consume poultry is.



Audrey Engvalson



Let's See How Controversial Your Pasta **Opinions Really Are**

Pasta lovers only!



xoxobuq



Not To Be Dramatic, But We Can Guess Your Exact Age Based On The Fashion Trends You've Tried

Don't lie to me, I know you had side bangs!!!



Lauren Garafano



Which Olivia Rodrigo Song And Color Are You?

Are you getting "Deja Vu" taking this guiz...



beccajayne17



Did You Know We Can Accurately Guess The Shape Of Your Ears Based On Your Taste In **Breakfast Foods?**





Answer Two Extremely Random Questions And Find Out What Kind Of Pasta You Are

How many pets would you like to have?

What movie would you want to watch right now?

- 1. Titanic
- 2. Avengers Endgame
- 3. Shark Tale

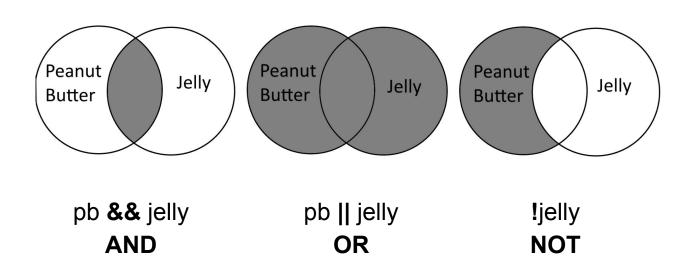


kahoot! I will pause throughout for questions/explanations

https://play.kahoot.it/v2/?quizId=26ee7fb1-e76a-44d9-9aaf-97824aec9baa



logical operators



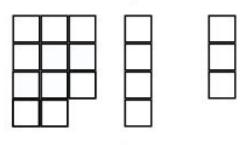
program flow: leap year

https://en.wikipedia.org/wiki/Leap_year#Algorithm

C Quirks

- modulo (see modulo_calculator.c)
- integer division (see integer_division.c)
- floating point errors (see floating_point_error.c)

modulo (%) gives the remainder



 $11 \ mod \ 4 = 3$

ComputerHope.com

Modulo Calculator by Peter Kerr (Tutor)

https://repl.it/@Divinitus/Modulo-Calculator (will push a copy onto github)

- 5%3
- 1%2
- -1 %2

This is NOT the same as modulo in maths!

C arithmetic examples

$$1/2 * 500 = 0$$

$$1/2.0 * 500 = 250.0$$

$$(17/5) * 5 + (17 % 5) = 17$$

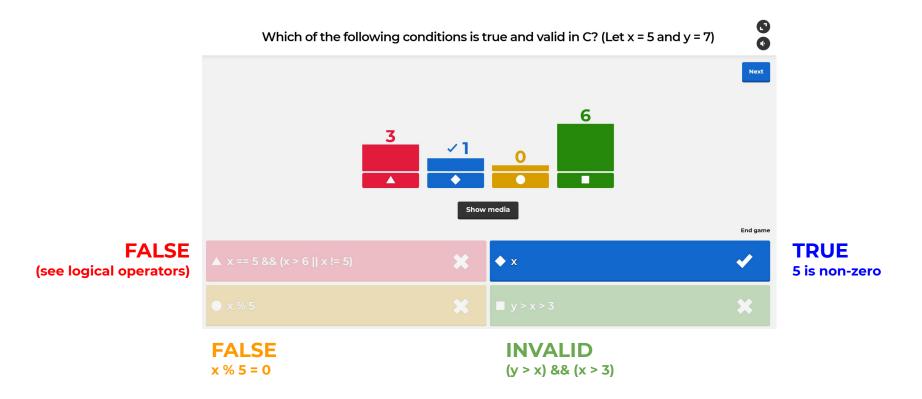
$$(12 - 17) % 6 - 4 = -9$$

C arithmetic examples

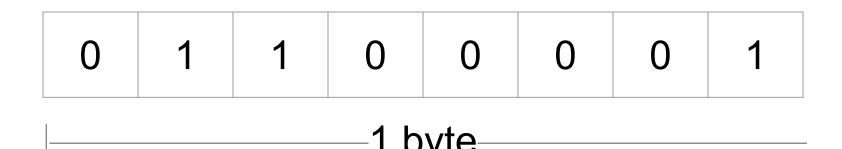
$$1/2 * 500 = 0 * 500 = 0$$

 $1/2.0 * 500 = 0.5 * 500 = 250.0$
 $(17/5) * 5 + (17 % 5) = 3 * 5 + 2 = 17$
 $(12 - 17) % 6 - 4 = -5 - 4 = -9$

[zero (0) interpreted as false, non-zero interpreted as True]



what is a char?



١

ascii table

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0	<nul></nul>	32	<spc></spc>	64	0	96	*	128	Ä	160	+	192	Ł	224	#
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3	<etx></etx>	35	#	67	C	99	c	131		163	£	195	√	227	All .
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