



comp1511 week 2

starting 5 minutes past the hour

Ada Luong & Adam Brieger

what's happening today?

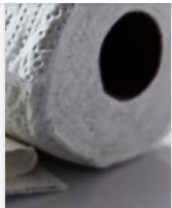
- **code demo:** variables/constants, scanf, if statements
- Kahoot! ft. some detours
 - Variables
 - If statements
 - Program Flow
 - C Operators
 - C Quirks

important things to note

- log into **discourse** (the course forum) so you get course announcements
- set up **home computing** (vlab or otherwise) so you can access cse machines outside of lab time
- **tutorial code and feedback form** can be found at https://github.com/adaluong/cs1511_21t2/

questions?

**making decisions
with computers :0**



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.

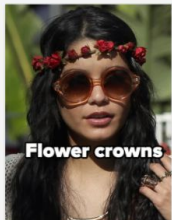
Audrey Engvalson



Let's See How Controversial Your Pasta Opinions Really Are

Pasta lovers only!

xoxobug



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!!!

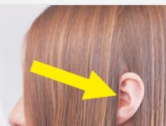
Lauren Garafano



Which Olivia Rodrigo Song And Color Are You?

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

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 dogs would you like to have?

What movie would you want to watch right now?

1. Shrek
2. Wreck It Ralph
3. The Emoji Movie

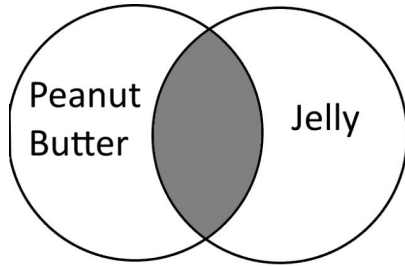


kahoot! I will pause throughout for questions/explanations

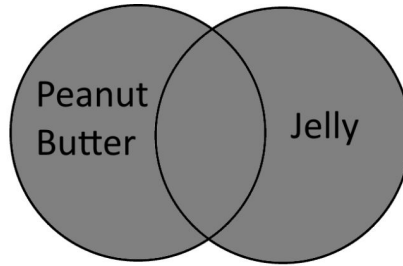
<https://play.kahoot.it/v2/?quizId=26ee7fb1-e76a-44d9-9aaf-97824aec9baa>



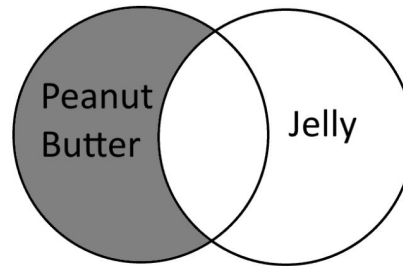
logical operators



pb **&&** jelly
AND



pb **||** jelly
OR



!jelly
NOT

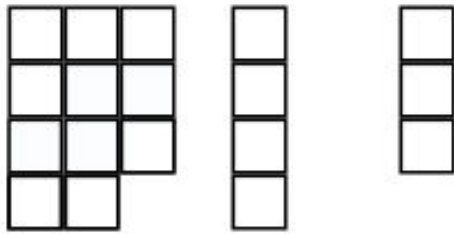
program flow: leap year

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



$$11 \bmod 4 = 3$$

ComputerHope.com

Modulo Calculator by Peter Kerr (Tutor)

<https://repl.it/@Divinitus/Modulo-Calculator>

(will push a copy onto github)

- $5 \% 3$
- $1 \% 2$
- $-1 \% 2$

C arithmetic examples

$$1 / 2 * 500 =$$

C arithmetic examples

$$1 / 2 * 500 = 0$$

C arithmetic examples

$$1 / 2 * 500 = 0$$

$$1 / 2.0 * 500 =$$

C arithmetic examples

$$1 / 2 * 500 = 0$$

$$1 / 2.0 * 500 = 250.0$$

C arithmetic examples

$$1 / 2 * 500 = 0$$

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

C arithmetic examples

$$1 / 2 * 500 = 0$$

$$1 / 2.0 * 500 = 250.0$$

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

C arithmetic examples

$$1 / 2 * 500 = 0$$

$$1 / 2.0 * 500 = 250.0$$

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

$$(12 - 17) \% 6 - 4 = .$$

C arithmetic examples

$$1 / 2 * 500 = 0$$

$$1 / 2.0 * 500 = 250.0$$

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

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