

Nicole Luong

# Week 2

Operators, Data types, Arithmetic, If Statements

The background features several thick, hand-drawn teal lines that intersect and loop across the page, creating a minimalist, abstract frame.

**Before we  
begin**

Home Computing

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# Tutorial Overview

1. Operators
2. Data Types and Arithmetic
3. Programming: Variables & Constants
4. Flow Charts (If Statements)
5. Programming: If statements & scanf

# Operators

# Operators

Type of Operator	Operators
Arithmetic	<code>+</code> <code>-</code> <code>*</code> <code>/</code> <code>%</code>
Logic	<code>&amp;&amp;</code> <code>  </code> <code>!</code>
Comparison	<code>&lt;</code> <code>&gt;</code> <code>&lt;=</code> <code>&gt;=</code> <code>!=</code> <code>==</code>

What is the difference between `/` and `%`?

# Data Types & Arithmetic

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# Data Types

int - integers (whole numbers)

double - floating point number (decimal point)

char - character

**A    ( 7 / 2 )**

**B    ( 3.0 / 2 ) + 1**

**C    'a' + 5**

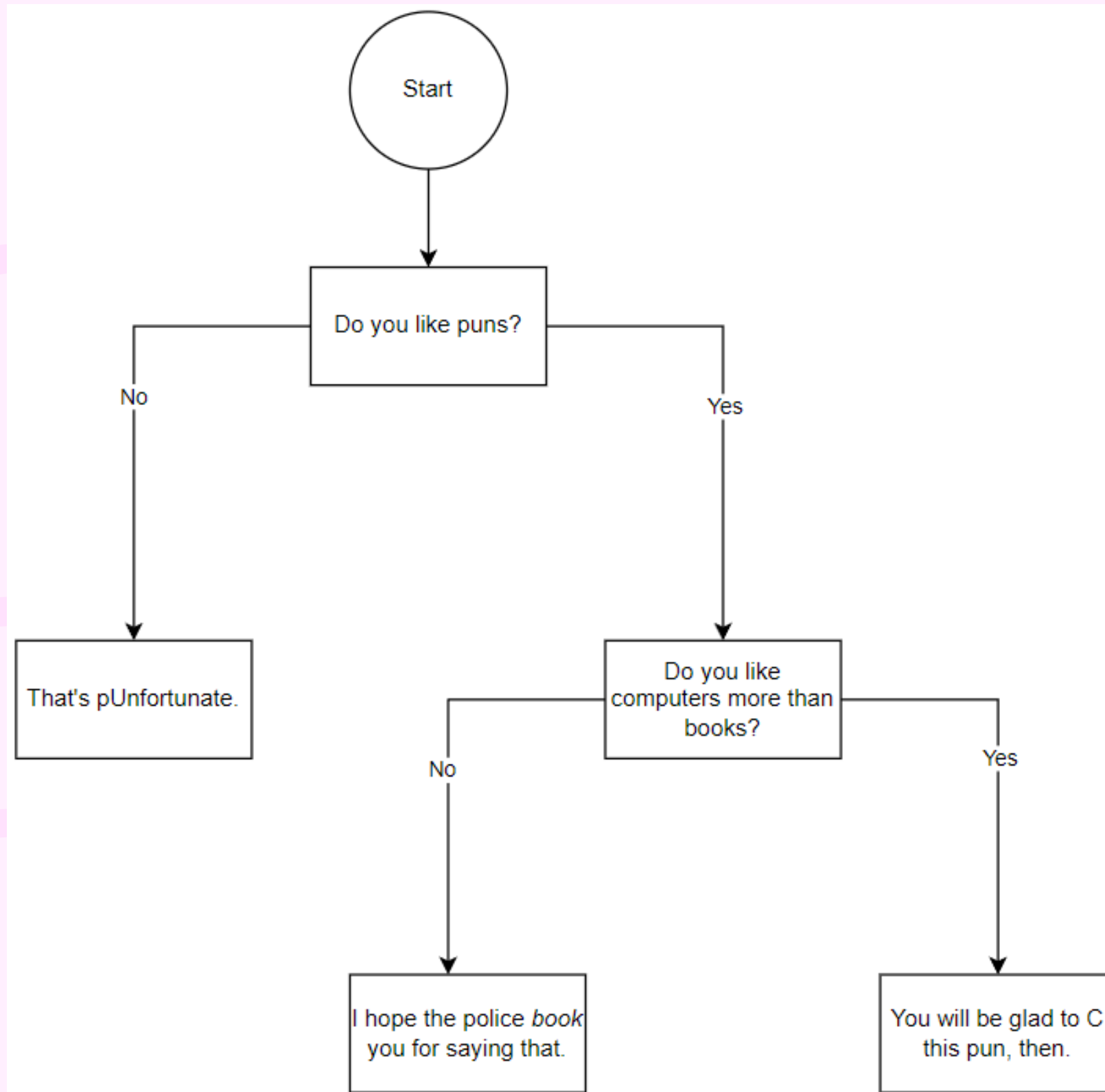
**D    'F' - 'A' + 'a'**

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# **Programming: Variables and Constants**



# Flow Charts (If Statements)



## Features:

Circle - Start of the flow chart

Boxes - Question

Arrows - An answer to a question, directing you to the next question

# Programming: If Statements & scanf

A decorative graphic consisting of several thick, light pink lines that intersect and loop across the left side of the slide, creating a geometric pattern.

# Lab Time!

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