QND Computer Science Day 9

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Recap

- Integers
- Floats
- Calculator Project

Combining Ints and Strings

Does not work

```
let sum = 5 + 10
`print("The sum is " + sum)`
```

Have to convert Int -> String

```
let sum = 5 + 10
`print("The sum is " + String(sum))`
```

if / else if / else

- Ask the user for an operation
- Add
- Subtract
- Multiply
- Divide
- Use else to handle error!

Improvements!

- String interpolation
- Nested ifs (again)

String Interpolation

- A fancy name for a simple thing
- Write "Sum is " + String(sum) is annoying
- Programmers are lazy!
- Insert code inside a string

```
let sum = a + b
print("Sum is " + String(sum))
// Same as
print("Sum is \((sum)"))
// same as
print("Sum is \((a + b)"))
```

Nested Ifs Again

```
if operation == "divide" {
    if secondNumber == 0 {
        print("Can't divide by zero!")
    } else {
        let quotient = firstNumber / secondNumber
        print("Quotient is \((quotient)\)")
    }
}
```

Calculator Improvements

- Accept "+" or "add" or "Add"
 - o use ||
- What happens if we divide by zero?
 - use nested if/else
- Use String Interpolation "The sum is \((sum)\)"