### QND Computer Science Day 9

Mark Schmidt

## Recap

- Integers
- Floats
- Calculator Project

# 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**

- Exponentiation
  - 0 \*\*
- Accept "+" or "add" or "Add"
  - o use
- What happens if we divide by zero?
  - use nested if/else
- Use String Interpolation "The sum is \((sum)\)"