### **QND Computer Science Day 6**

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## Recap

- Calculator
- Nested Ifs

#### What does this do?

```
var count = 0
while count < 3 {
    print("Hello, World, count = \((count)\)")
    count = count + 1
}</pre>
```

# var

```
var count = 0
```

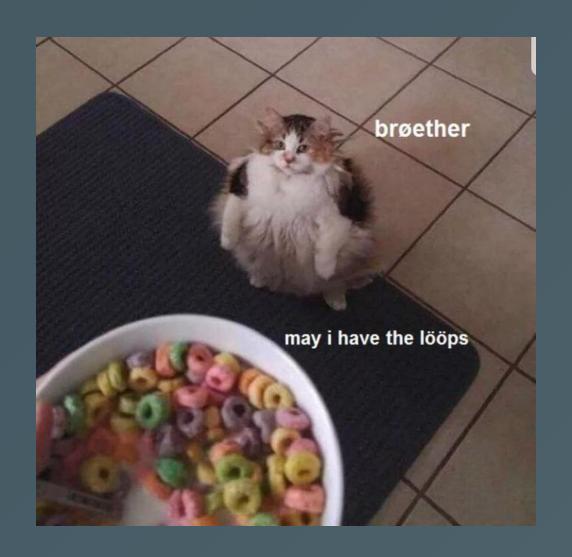
• Read as "set variable count to 0"

```
count = count + 1
```

- Read as "set count to count + 1"
- let cannot be changed
- var can

# Loops

- while loops
- for loops



### Here be dragons!

```
count = 1
while count > 0:
    print(f"Hello, World! Count = {count}")
    count = count + 1
```

### Infinite Loops

- This program will never end
- To exit early, use CTRL + C shortcut or STOP button
- Beware of overflowing resources

when you forget to write an exit condition for your while loop



#### Loops!

```
var running = true
while running {
    print("Enter a number")
    let firstNumber = Int(readLine()!)!
    print("Enter another number")
    let secondNumber = Int(readLine()!)!
    print("Enter a command")
    if command == "q" || command == "quit" {
        running = false
    } else if command == "add" {
```

### Today's Task

- Add a while loop to the calculator
- Finish the calculator!