Loops

- Motivation of why loops are important
    - Situations in which you don't know how many times you want code to run
    - Example: Fibonacci
- Solution: loops!
- For loop syntax
    - Everything under code block runs a set number of times depending on the range
    - Example: sum of numbers from 1 to n
    - Range => third parameter can be defined, or even none
    - How many times does the loop run (end-start/step)
- Nested loops
    - How many times do they run?
- While loop syntax
- Discussion about for vs while loops
    - What situations do you use each of them in?
- Break and continue
- Activity: With the person next to you, write digitCount(n), which returns the number of digits in a number n
- isPrime, fasterIsPrime
    - maxFactor allows us to make isPrime faster
        - Factors come in pairs
- nthPrime
    - nthTemplate