

# README

April 16, 2016

## **prePrubychallenges**

The Ruby challenge problems from the Markup and Coding course of the Viking Code School Prep Work

## 1 Ruby Calisthenics

### 1.1 Power

Write a method *power* which takes two integers (*base* and *exponent*) and returns the *base* raised to the power of *exponent*. Do not use Ruby's `***` operator for this!

```
> power(3,4)
=> 81 # (3*3*3*3)
```

```
def power(base,exponent)
  # returns base raised to the power of exponent without the use of ** operator

  a = base
  b = exponent
  c = []

  b.times do
    c.push a
  end

  c.inject(1) {|product, n| product * n}
end

power(3,4)
```

## 1.2 Factorial

Write a method *factorial* which takes a number and returns the product of every number up to the current number multiplied together.

```
> factorial(5)
=> 120 # from 1*2*3*4*5
```

```
def factorial(n)
  # Int => Int
  # Takes a number and returns the product of every number up to
  # the current number multiplied together

  a = []

  (1..n).to_a.each do |i|
    a.push i
  end

  puts a
end

factorial(5)

nil
```

## 1.3 Uniques

## 1.4 Combinations

## 1.5 Primes

## 1.6 Rectangle Overlap