

Ruby master - Misc #12675

Code simplification and readability for prime_division method in prime.rb

08/14/2016 08:46 PM - jzakiya (Jabari Zakiya)

Status:	Open
Priority:	Normal
Assignee:	
Description	
<p>I believe the following code simplification for the prime_division method in prime.rb makes it more readable as English, thus more understandable, while also significantly more concise in terms of lines-of-code (25 vs 16), and may I dare say, more idiomatic, and beautiful.</p>	
<pre>def prime_division(value, generator = Prime::Generator23.new) raise ZeroDivisionError if value == 0 if value < 0 value = -value pv = [[-1, 1]] else pv = [] end generator.each do prime count = 0 while (value1, mod = value.divmod(prime) mod) == 0 value = value1 count += 1 end if count != 0 pv.push [prime, count] end break if value1 <= prime end if value > 1 pv.push [value, 1] end pv end</pre>	
<pre>def prime_division(value, generator = Prime::Generator23.new) raise ZeroDivisionError if value == 0 pv = value < 0 ? [[-1, 1]] : [] value = value.abs generator.each do prime count = 0 while (value1, mod = value.divmod(prime); mod) == 0 value = value1 count +=1 end pv.push [prime, count] unless count == 0 break if prime > value1 end pv.push [value, 1] if value > 1 pv end</pre>	