

Ruby - Bug #4914

Array#index fails when used in if statement assignment

06/22/2011 05:28 AM - bterkuile (Benjamin ter Kuile)

Status:	Rejected	Backport:
Priority:	Normal	
Assignee:		
Target version:		
ruby -v:	1.9.2p180 (2011-02-18 revision 30909) [x86_64-linux]	
Description		
cat /etc/issue: Ubuntu 11.04 rvm -v: rvm 1.6.2 rvm 1.9.2, ruby -v: ruby 1.9.2p180 (2011-02-18 revision 30909) [x86_64-linux] Also tested with: rvm 1.9.2-head, ruby -v: ruby 1.9.2p274 (2011-06-06 revision 31932) [x86_64-linux]		
Test code:		
<pre>a = [:a, :b, :c] for k in 'a'..'c' if i = a.index(k.to_sym) && k.to_s =~ /b/ puts i end end for k in 'a'..'c' i = a.index(k.to_sym) if i && k.to_s =~ /b/ puts i end end</pre>		
output: 0 1		
expected output: 1 1		

History

#1 - 06/22/2011 05:37 AM - mfn (Markus Fischer)

It "works" for me if you change the && to and; so I think it's a precedence issue you're facing here.

I think this blog post here has some good examples which I think directly apply to your case:

<http://blog.jayfields.com/2007/08/ruby-operator-precedence-of-and-which.html>

#2 - 06/22/2011 05:39 AM - matz (Yukihiro Matsumoto)

- Status changed from Open to Rejected

not a bug. run the following:

```
a = [:a, :b, :c]
for k in 'a'..'c'
  if i = a.index(k.to_sym) && k.to_s =~ /b/
    puts i
  end
end
for k in 'a'..'c'
  if i = (a.index(k.to_sym) && k.to_s =~ /b/)
    puts i
  end
end
```

```

for k in 'a'..'c'
  if (i = a.index(k.to_sym)) && k.to_s =~ /b/
    puts i
  end
end
for k in 'a'..'c'
  i = a.index(k.to_sym)
  if i && k.to_s =~ /b/
    puts i
  end
end

```

#3 - 06/22/2011 05:53 AM - judofyr (Magnus Holm)

Ruby parses your code like this:

```
if i = (a.index(k.to_sym) && k.to_s =~ /b/)
```

You can fix this by using "and" or explicit parenthesis:

```

if i = a.index(k.to_sym) and k.to_s =~ /b/
if (i = a.index(k.to_sym)) && k.to_s =~ /b/

```

// Magnus Holm

On Tue, Jun 21, 2011 at 22:28, Benjamin ter Kuile bterkuile@gmail.com wrote:

Issue [#4914](#) has been reported by Benjamin ter Kuile.

Bug [#4914](#): Array#index fails when used in if statement assignment
<http://redmine.ruby-lang.org/issues/4914>

Author: Benjamin ter Kuile
 Status: Open
 Priority: Normal
 Assignee:
 Category:
 Target version:
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 Also tested with: rvm 1.9.2-head, ruby -v: ruby 1.9.2p274 (2011-06-06 revision 31932) [x86_64-linux]

Test code:

```

a = [:a, :b, :c]
for k in 'a'..'c'
  if i = a.index(k.to_sym) && k.to_s =~ /b/
    puts i
  end
end
for k in 'a'..'c'
  i = a.index(k.to_sym)
  if i && k.to_s =~ /b/
    puts i
  end
end

```

output:
 0
 1

expected output:
 1
 1

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<http://redmine.ruby-lang.org>