# Ruby - Bug #11385

# `==` with bidirectional/cyclic dependency

07/22/2015 02:54 AM - allenwq (Allen Wang)

| Status:  | Rejected                                    |  |  |
|--|---|--|--|
| Priority:  | Normal                                      |  |  |
| Assignee:  | core  |  |  |
| Target version:  |   |  |  |
| ruby -v:   | 2.2.1                                       | Backport:                              | 2.0.0: UNKNOWN, 2.1: UNKNOWN, 2.2<br>UNKNOWN |
| Description  |   |  |  |
| self.frie<br>end<br>def ==(othe  | sor :friend<br>Lize(friend)<br>end = friend |  |  |
| <pre>a = Something<br/>b = Something<br/>a.friend = [k]</pre>            | g.new([a])                                  |  |  |
| a == b   |   |  |  |
| The above code   | returns true on OS X and Linux,             | by right it should give me a exception | tion of stack level too deep.                |
| ( And on windows   | s I can see the expected exception          | on )                                   |  |
| Related issues:  |   |  |  |
| Related to Ruby - Bug #1448: [patch] Proper handling of recursive arrays |   |  | Closed 05/09/2009                            |

## History

## #1 - 07/22/2015 05:54 AM - nobu (Nobuyoshi Nakada)

- Description updated

- Status changed from Open to Rejected

true is the expected result, and the same with x64-mswin64\_120.

## #2 - 07/22/2015 07:16 AM - lowjoel (Joel Low)

#### Hi Nakada-san:

```
D:\> ruby -v
ruby 2.2.3p147 (2015-07-04 revision 51143) [x64-mswin64_120]
D:\> ruby test.rb
test.rb:8:in `==': stack level too deep (SystemStackError)
    from test.rb:8:in `=='
    from test.rb:8:in `=='
```

from test.rb:8:in `=='
from test.rb:17:in `<main>'

It seems to be a problem specific to Windows. The test suite passes (IIRC)

### #3 - 07/22/2015 08:34 AM - Eregon (Benoit Daloze)

### Should the result not be false instead?

These two instances each have a different @friend and it cannot be determined if they are equal so "false" seems a much safer answer.

Also, this seems inconsistent to how Comparable#== treat such cases:

```
class Something
  attr_accessor :friend
  def initialize(friend)
    self.friend = friend
  end
  include Comparable
  def <=>(other)
    friend <=> other
  end
a = Something.new([])
b = Something.new([])
a.friend = [b]
p a == b # false (and not true like above!)
```

### #4 - 07/22/2015 08:56 AM - Hanmac (Hans Mackowiak)

my version is "ruby 2.3.0dev (2015-07-21 trunk 51319) [x86\_64-linux]"

and it does return true for me too

## #5 - 07/24/2015 04:00 PM - Eregon (Benoit Daloze)

<u>#1448</u> and the specs in <u>https://github.com/ruby/rubyspec/blob/master/core/array/shared/eql.rb</u> convinced me this is desirable behavior.

# #6 - 07/24/2015 04:04 PM - Eregon (Benoit Daloze)

- Related to Bug #1448: [patch] Proper handling of recursive arrays added

#### Files

test.rb

226 Bytes 07/22/2015

allenwq (Allen Wang)