

Ruby master - Bug #13104

mathn.rb affects Rational literals

01/05/2017 07:45 AM - nobu (Nobuyoshi Nakada)

Status: Closed	
Priority: Normal	
Assignee: matz (Yukihiro Matsumoto)	
Target version:	
ruby -v: r57270	Backport: 2.2: REQUIRED, 2.3: REQUIRED, 2.4: REQUIRED
Description Without mathn: <pre>\$ ruby -e 'p 1.0r' (1/1)</pre> With mathn: <pre>\$ ruby -r mathn -e 'p 1.0r' 1</pre> Is this intentional? https://github.com/ruby/ruby/compare/trunk...nobu:bug/rational-literal-mathn	

History

#1 - 01/20/2017 04:26 AM - shyouhei (Shyouhei Urabe)

We looked at this issue at yesterday's developer meeting.

The intension was not made clear, but we confirmed that mathn's global side-effects are the nature of that library. Maybe requiring it implies your willing to accept such surprising behaviour.

#2 - 01/20/2017 05:24 AM - nobu (Nobuyoshi Nakada)

- Subject changed from *math.rb affects Rational literals* to *mathn.rb affects Rational literals*

Just "don't use math"?

#3 - 02/23/2017 08:19 PM - stomar (Marcus Stollsteimer)

Seems to be triggered by `ext/mathn/rational/rational.c` and `ext/mathn/complex/complex.c`, which activate "canonicalization" in `rational.c` and `complex.c`.

```
$ ruby -r mathn/rational -e 'p Rational(2/1)'  
2  
$ ruby -r mathn/complex -e 'p Complex("3+0i")'  
3
```

I suppose the reasoning behind the behavior was that in mathematics generally the simplest representation of a number is used, and $n/1 = n$.

But what are the plans for mathn anyway? -- It seems to be deprecated since 2.2 ([#10169](#)).

#4 - 12/01/2017 04:30 PM - naruse (Yui NARUSE)

- Target version deleted (2.5)

mathn is out of scope from release engineering.

#5 - 07/25/2019 11:46 PM - jeremyevans0 (Jeremy Evans)

- Status changed from *Assigned* to *Closed*

mathn was removed in Ruby 2.5.