

Ruby master - Bug #7728

Range#bsearch on other Numerics?

01/23/2013 03:12 AM - marcandre (Marc-Andre Lafortune)

Status: Closed	
Priority: Normal	
Assignee: marcandre (Marc-Andre Lafortune)	
Target version: 2.0.0	
ruby -v: r38825	Backport:
Description	
Range#bsearch attempts to do something on generic Numeric classes.	
I feel it is both useless and buggy:	
<pre>(Rational(-1,2)..Rational(9,4)).bsearch{ x true} # => yields with 7/8 and 33/16 (Rational(-1,2)..Rational(9,4)).bsearch{ x false} # => loops forever (BigDecimal('0.5')..BigDecimal('2.25'))... # => same</pre>	
I feel the current implementation (aside from the bugs) only makes sense on Integers.	
Possible approaches:	
<ul style="list-style-type: none">• Rational<ol style="list-style-type: none">1) convert to float, or2) bsearch accepts a "max iterations" parameter (which would be required for Rational), or3) forbid altogether• BigDecimal<ol style="list-style-type: none">1) convert to float, or2) look at the space of decimal numbers in the range without a higher precision than begin or end.	
Given the timeframe though, I recommend we raise a TypeError for both in 2.0.0 (or a NotImplemented if we decide what should be done).	

Associated revisions

Revision 38985 - 01/30/2013 05:46 AM - marcandre (Marc-Andre Lafortune)

- range.c: Restrict bsearch to integers [#7728]
- test/ruby/test_range.rb: Test for above

Revision 38985 - 01/30/2013 05:46 AM - marcandre (Marc-Andre Lafortune)

- range.c: Restrict bsearch to integers [#7728]
- test/ruby/test_range.rb: Test for above

Revision 38985 - 01/30/2013 05:46 AM - marcandre (Marc-Andre Lafortune)

- range.c: Restrict bsearch to integers [#7728]

- test/ruby/test_range.rb: Test for above

Revision 38985 - 01/30/2013 05:46 AM - marcandre (Marc-Andre Lafortune)

- range.c: Restrict bsearch to integers [#7728]
- test/ruby/test_range.rb: Test for above

Revision 38985 - 01/30/2013 05:46 AM - marcandre (Marc-Andre Lafortune)

- range.c: Restrict bsearch to integers [#7728]
- test/ruby/test_range.rb: Test for above

Revision 38985 - 01/30/2013 05:46 AM - marcandre (Marc-Andre Lafortune)

- range.c: Restrict bsearch to integers [#7728]
- test/ruby/test_range.rb: Test for above

History

#1 - 01/30/2013 02:48 PM - marcandre (Marc-Andre Lafortune)

- *Status changed from Open to Closed*
- *Assignee set to marcandre (Marc-Andre Lafortune)*

Resolved with r38985.