

Ruby trunk - Feature #15725

Proposal: Add Array#reverse_sort, #revert_sort!, #reverse_sort_by, and #reverse_sort_by!

03/23/2019 10:13 AM - sikachu (Prem Sichanugrist)

Status:	Open	
Priority:	Normal	
Assignee:		
Target version:		
Description		
Hello,		
I would like to propose four new methods: #reverse_sort, #revert_sort!, #reverse_sort_by, and #reverse_sort_by! to Array.		
These methods provides the most efficient way for user to get a reversed sorted array by calling sort(_by) then .reverse!.		
As a language designer, I believe that we should suggest the most efficient way to perform a certain action to user. By introduce these methods, we can discourage user to use them instead of do array.sort.reverse or array.sort { a,b b<=>a} which are less performant.		
I've looked through Redmine, and I saw that there was a proposal to introduce a similar method to Enumerable in https://bugs.ruby-lang.org/issues/8422 , but was somewhat rejected due to the complication with infinite Enumerable. Given that Array is finite, I think this is the best place for these methods to be implemented.		
I've attached a patch to implement these methods based on other ary_sort related methods. Please let me know your thought on how I could improve them to be mergeable, as I am not proficient in writing C.		
I'm looking forward to hear your thoughts about this proposal. Thank you very much.		
Related issues:		
Related to Ruby trunk - Feature #12648: `Enumerable#sort_by` with descending ...		Open

History

#1 - 03/23/2019 11:13 AM - mame (Yusuke Endoh)

- Related to Feature #12648: `Enumerable#sort_by` with descending option added

#2 - 03/23/2019 02:03 PM - shevegen (Robert A. Heiler)

As this is a duplicate it may be best to discuss it in [#12648](#).

I have not yet commented so just briefly; I am mostly neutral, can see both ways. I think a slight problem is that the method names can be a bit long and clumsy, especially #reverse_sort_by! - this is in my opinion a bit too long.

I am also not completely sure whether we really need it. I myself usually use .sort and .sort_by, and then apply .reverse afterwards. But I can also understand people wanting to do all in one go; we just should see that the method names are useful, if this is approved that is (see what matz wrote in the other issue). But again, I have no real strong preference either way.

Files

0001-Add-Array-reverse_sort-reverse_sort_by-methods.patch	6.29 KB	03/23/2019	sikachu (Prem Sichanugrist)
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