

## Ruby master - Feature #12080

### Enumerable#first, Array#last with block

02/17/2016 01:38 PM - rhenium (Kazuki Yamaguchi)

<b>Status:</b>	Open
<b>Priority:</b>	Normal
<b>Assignee:</b>	
<b>Target version:</b>	
<b>Description</b>	
I propose a new feature: {Enumerable,Array,Range}#first, {Array,Range}#last with block.	
If no argument is passed:	
<ul style="list-style-type: none"><li>• <code>enum.first { block }</code> works as the same as <code>enum.find { block }</code></li><li>• <code>ary.last { block }</code> works as the same as <code>ary.reverse_each.find { block }</code></li></ul>	
If a integer is passed:	
<ul style="list-style-type: none"><li>• <code>enum.first(n) { block }</code> works as the same as <code>enum.lazy.select { block }.first(n)</code></li><li>• <code>ary.last(n) { block }</code> works as the same as <code>ary.reverse_each.lazy.select { block }.first(n).reverse</code></li></ul>	
<b>Examples:</b>	
<pre>ary = [1, 2, 3, 4, 5, 6] ary.first {  i  i.even? } #=&gt; 2 ary.first(2) {  i  i.even? } #=&gt; [2, 4]  ary.last {  i  i.odd? } #=&gt; 5 ary.last(2) {  i  i.odd? } #=&gt; [3, 5]</pre>	
Currently these methods just ignore given blocks.	
<pre>ary.first {  i  i &gt; 3 } #=&gt; 1</pre>	
<b>I sometimes write such code:</b>	
<pre>ary = ["DEBUG: a", "WARN: b", ..., "WARN: y", "DEBUG: z"] # assume a large Array ary.reverse_each.lazy.reject {  line  line.include?("DEBUG") }.first(10).reverse #=&gt; returns last 10 non-debug logs</pre>	
But this is redundant and not intuitive. In this case, I just want the last 10 logs which is not debug message in the original order. With the new <code>Array#last</code> , I can refactor it:	
<pre>ary.last(10) {  line  !line.include?("DEBUG") }</pre>	
I think this represents what I want to do much more clearly.	

### History

#### #1 - 04/12/2016 01:41 PM - rhenium (Kazuki Yamaguchi)

- File `v2-0001-Enumerable-Array-Range-first-Array-Range-last-wit.patch` added

ping... Any thoughts?

(updated patch to apply successfully to the current trunk)

#### #2 - 04/20/2016 03:51 AM - shyouhei (Shyouhei Urabe)

We looked at this on this month's developer meeting but I remember there was no concrete consensus for this request.

### Files

0001-Enumerable-Array-Range-first-Array-Range-last-with-b.patch	11.5 KB	02/17/2016	rhenium (Kazuki Yamaguchi)
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