

















AVL Sort	
Runtime:	
Would the simpler "Splay sort" take any lo	nger than this?
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QuickSort: Worst case complexity



Features of Sorting Algorithms

- In-place
 - Sorted items occupy the same space as the original items. (No copying required, only O(1) extra space if any.)
- Stable
 - Items in input with the same value end up in the same order as when they began.

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Sort Properties					
Are the following:	stable?		in-place?		
Insertion Sort?	No	Yes	No	Yes	
Selection Sort?	No	Yes	No	Yes	
Heap Sort?	No	Yes	No	Yes	
MergeSort?	No	Yes	No	Yes	
QuickSort?	No	Yes	No	Yes	
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 In practice
RadixSort only good for large number of elements with relatively small values. Why?
⁶⁰²²⁰⁰⁸ Hard on the cache compared to MergeSort/QuickSort ⁴¹

