

_____ Sort

Here's another idea for a sorting algorithm:

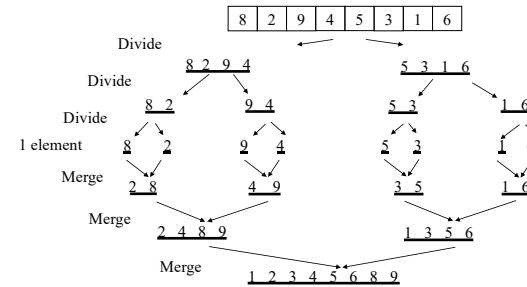
- Maintain a sorted subarray
- While(subarray is not full array)
 - Find the smallest element remaining in the unsorted part.
 - Append it at the end of the sorted part.

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Mergesort example: Merge as we return from recursive calls



When a recursive call ends, it's sub-arrays are each in order; just need to merge them in order together

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Quicksort Overview

1. Pick a pivot element
 - Hopefully an element ~median
 - Good Quicksort performance depends on good choice of pivot; we'll see why later, and talk about good pivot selection later
2. Partition all the data into:
 - A. The elements less than the pivot
 - B. The pivot
 - C. The elements greater than the pivot
3. Recursively sort A and C
4. The answer is, "as simple as A, B, C"

(Alas, there are some details lurking in this algorithm)

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Radix Sort: Ones Place

012	234	789	555	678	200	777	562
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0	1	2	3	4	5	6	7	8	9

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