

Sorting algorithms Cheat Sheet by kimr843 via cheatography.com/31014/cs/9342/

Merge sort

- 1.Divides the array in half
- 2. Sorts each of these halves
- 3. Merges them back together
- Each of these haves have the same sorting algorithm applied to it
- Eventually you are merging just 2 single element arrays

Quick sor

Array is split in two parts based on a pivot point (one with elements larger than the pivot, one with elements smaller than the pivot) and is recursively repeated

Divide-and-conquer, massively recursive sort

Radix sort

- 1. First look at the least sig fig and sort everybody based on this.
- 2. Sort based on 2nd most sig fig ->Whenever I have repetition in the 2nd digit -> the 2nd order already in the 1st one kicks
- 3. Repeat for the most sig dig and maintain everybody else

Type of stable sort (order of duplicates is maintained)

Asymptotic analysis	
BIG-OH	INFORMAL NAME
O(1)	constant
$O(\log n)$	logąrithmic
O(n)	linear
$O(n \log n)$	$n \log n$
$O(n^2)$	quadratic
$O(n^3)$	cubic
$O(2^n)$	exponential



By kimr843

cheatography.com/kimr843/

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