

SORTING ALGORITHM & TIME COMPLEXITY

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Algorithm	Time Complexity		
	Best	Average	Worst
Quicksort	$\Omega(n \log(n))$	$\Theta(n \log(n))$	$O(n^2)$
Mergesort	$\Omega(n \log(n))$	$\Theta(n \log(n))$	$O(n \log(n))$
Timsort	$\Omega(n)$	$\Theta(n \log(n))$	$O(n \log(n))$
Heapsort	$\Omega(n \log(n))$	$\Theta(n \log(n))$	$O(n \log(n))$
Bubble Sort	$\Omega(n)$	$\Theta(n^2)$	$O(n^2)$
Insertion Sort	$\Omega(n)$	$\Theta(n^2)$	$O(n^2)$
Selection Sort	$\Omega(n^2)$	$\Theta(n^2)$	$O(n^2)$
Tree Sort	$\Omega(n \log(n))$	$\Theta(n \log(n))$	$O(n^2)$
Bucket Sort	$\Omega(n+k)$	$\Theta(n+k)$	$O(n^2)$
Radix Sort	$\Omega(nk)$	$\Theta(nk)$	$O(nk)$
Counting Sort	$\Omega(n+k)$	$\Theta(n+k)$	$O(n+k)$
Cube Sort	$\Omega(n)$	$\Theta(n \log(n))$	$O(n \log(n))$

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