

	Time Complexity			Space Complexity
Algorithm	Best	Average	Worst	Worst
Selection Sort	$\Omega(n^2)$	$\theta(n^2)$	$O(n^2)$	$O(1)$
Bubble Sort	$\Omega(n)$	$\theta(n^2)$	$O(n^2)$	$O(1)$
Insertion Sort	$\Omega(n)$	$\theta(n^2)$	$O(n^2)$	$O(1)$
Heap Sort	$\Omega(n \log(n))$	$\theta(n \log(n))$	$O(n \log(n))$	$O(1)$
Quick Sort	$\Omega(n \log(n))$	$\theta(n \log(n))$	$O(n^2)$	$O(n)$
Merge Sort	$\Omega(n \log(n))$	$\theta(n \log(n))$	$O(n \log(n))$	$O(n)$
Bucket Sort	$\Omega(n + k)$	$\theta(n + k)$	$O(n^2)$	$O(n)$
Radix Sort	$\Omega(nk)$	$\theta(nk)$	$O(nk)$	$O(n + k)$
Count Sort	$\Omega(n + k)$	$\theta(n + k)$	$O(n + k)$	$O(k)$
Shell Sort	$\Omega(n \log(n))$	$\theta(n \log(n))$	$O(n^2)$	$O(1)$
Tim Sort	$\Omega(n)$	$\theta(n \log(n))$	$O(n \log(n))$	$O(n)$
Tree Sort	$\Omega(n \log(n))$	$\theta(n \log(n))$	$O(n^2)$	$O(n)$
Cube Sort	$\Omega(n)$	$\theta(n \log(n))$	$O(n \log(n))$	$O(n)$