

	Time Complexity			Space Complexity
Sorting Algorithm	Best case	Avg Case	Worst Case	
Selection Sort	$O(n^2)$	$\theta(n^2)$	$O(n^2)$	$O(1)$
Bubble Sort	$O(n)$	$\theta(n^2)$	$O(n^2)$	$O(1)$
Insertion Sort	$O(n)$	$\theta(n^2)$	$O(n^2)$	$O(1)$
Heap Sort	$O(n \log(n))$	$\theta(n \log(n))$	$O(n \log(n))$	$O(1)$
Quick Sort	$O(n \log(n))$	$\theta(n \log(n))$	$O(n^2)$	$O(\log(n))$
Merge Sort	$O(n \log(n))$	$\theta(n \log(n))$	$O(n \log(n))$	$O(n)$
Bucket Sort	$O(n+k)$	$\theta(n+k)$	$O(n^2)$	$O(n)$
Radix Sort	$O(nk)$	$\theta(nk)$	$O(nk)$	$O(n+k)$
	Time Complexity			Space Complexity
Searching Algorithm	Best case	Avg Case	Worst Case	
Linear search	$O(1)$	$O(n)$	$O(n)$	$O(1)$
Binary search	$O(1)$	$O(\log n)$	$O(\log n)$	$O(1)$
	Time Complexity		Space Complexity	
Graph Algorithm	Avg Case	Worst Case		
Dijkstra's algorithm	$O(E \log V)$	$O(V ^2)$	$O(V + E)$	
Prim's algorithm	$O(E \log V)$	$O(V ^2)$	$O(V + E)$	
Bellman–Ford algorithm	$O(E \cdot V)$	$O(E \cdot V)$	$O(V)$	
Floyd-Warshall algorithm	$O(V ^3)$	$O(V ^3)$	$O(V ^2)$	