

Algorithm	Time Complexity			Worst Case Space Complexity
	Best	Average	Worst	
Bubble Sort	$O(n)$	$O(n^2)$	$O(n^2)$	$O(1)$
Insertion Sort	$O(n)$	$O(n^2)$	$O(n^2)$	$O(1)$
Selection Sort	$O(n^2)$	$O(n^2)$	$O(n^2)$	$O(1)$
Merge Sort	$O(n \log n)$	$O(n \log n)$	$O(n \log n)$	$O(n)$
Heap Sort	$O(n \log n)$	$O(n \log n)$	$O(n \log n)$	$O(1)$
Quicksort	$O(n \log n)$	$O(n \log n)$	$O(n^2)$	$O(n)$
Bucket Sort*	$O(n + k)$	$O(n + k)$	$O(n^2)$	$O(n)$
Radix Sort**	$O(n * k)$	$O(n * k)$	$O(n * k)$	$O(n+k)$
Counting Sort***	$O(n+k)$	$O(n + k)$	$O(n+k)$	$O(k)$

*k represents the number of buckets

**k represents the number of digits in the largest number in the array

***k represents the difference between the smallest and the largest array value

Algorithms And Complexity

Roman Wölfel



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