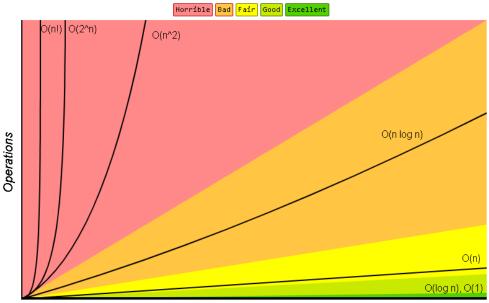
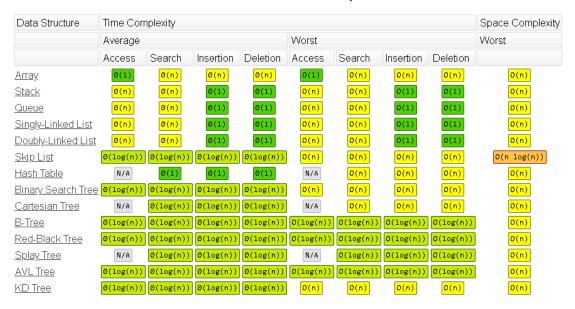
Gráfico de complejidad de Big-O



Elements

Common Data Structure Operations



Array Sorting Algorithms

Algorithm	Time Complexity			Space Complexity
	Best	Average	Worst	Worst
<u>Quicksort</u>	$\Omega(n \log(n))$	$\Theta(n \log(n))$	O(n^2)	0(log(n))
<u>Mergesort</u>	$\Omega(n \log(n))$	$\Theta(n \log(n))$	O(n log(n))	0(n)
<u>Timsort</u>	$\Omega(n)$	$\Theta(n \log(n))$	O(n log(n))	O(n)
<u>Heapsort</u>	$\Omega(n \log(n))$	$\Theta(n \log(n))$	O(n log(n))	0(1)
Bubble Sort	$\Omega(n)$	0(n^2)	O(n^2)	0(1)
Insertion Sort	$\Omega(n)$	0(n^2)	O(n^2)	0(1)
Selection Sort	$\Omega(n^2)$	0(n^2)	O(n^2)	0(1)
Tree Sort	$\Omega(n \log(n))$	$\Theta(n \log(n))$	O(n^2)	O(n)
Shell Sort	$\Omega(n \log(n))$	0(n(log(n))^2)	O(n(log(n))^2)	0(1)
Bucket Sort	$\Omega(n+k)$	0(n+k)	O(n^2)	O(n)
Radix Sort	$\Omega(nk)$	O(nk)	0(nk)	O(n+k)
Counting Sort	$\Omega(n+k)$	0(n+k)	0(n+k)	0(k)
<u>Cubesort</u>	$\Omega(n)$	O(n log(n))	O(n log(n))	0(n)