

Text Book:

Introduction to the Design and Analysis of Algorithms Author: Anany Levitin 2nd Edition

Basic Efficiency Classes to represent time complexity

Class	Name	Example
1	constant	Best case for sequential search
log n	logarithmic	Binary Search
n	linear	Worst case for sequential search
n log n	n-log-n	Mergesort
$n \log n$ n^2	n-log-n quadratic	Mergesort Bubble Sort
n^2	quadratic	Bubble Sort