

Announcements ▸ Week 6

Week 6

Posted Apr 7, 2025 12:31 PM

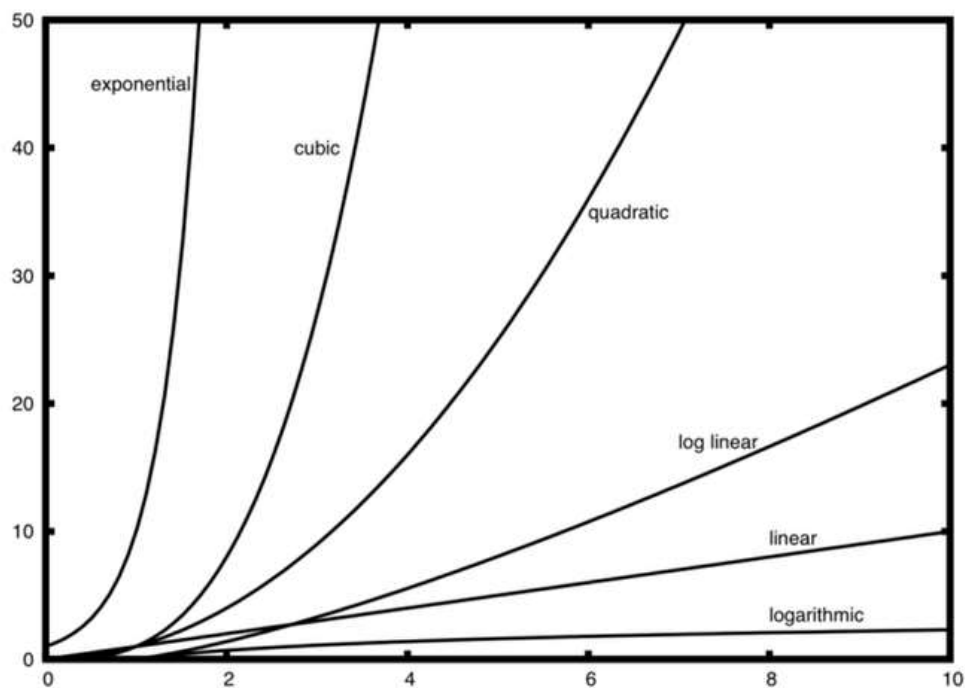



Figure 1: Plot of Common Big-O Functions

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This week we will focus on algorithm analysis using big-O notation.

Since Big-O analysis is focused on relative algorithmic running time, we typically throw out any constants in our final answer. In other words, $O(7n)$ is equivalent to $O(n)$. However, when actually running the program, an algorithm that performs $7n$ comparisons, for example, will run slower than an algorithm that performs n comparisons. They both would be faster than an algorithm that performs n^2 comparisons as the size of n increases.

Here is some time complexity in accessing, insertion, deletion, and searching for elements in the common data structures. 

Reminder:

Project One is due in this module, and Project Two is due in Module Seven. (You need to sign up for a github account to share your project with me. my github account is the same as my email address: c.ling@snhu.edu)

Happy Coding!

C.L.