CSPSC 335 Project:

Algorithm Analysis

For large values of n, the mathematically-derived efficiency class of an algorithm accurately predicts the observed running time of an implementation of that algorithm.

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Soccor_Dyn_Prog O(n^2)

[Scatter plot: x-axis labeled "n: n x n Field" ranging 0 to 1000, y-axis labeled "Seconds" ranging 0.00E+00 to 3.50E-02]

Longest Frequent Substring O(n^3)

[Scatter plot: x-axis labeled "n (Length)" ranging 0 to 30, y-axis labeled "Time (s)" ranging 0.00E+00 to 3.50E-04]

Soccor_Exhaustive $O(n2^n)$