

Matrix Multiplication

Chapter 4.2 of Cormen's book

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Algorithmic Design

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Hashing

Chapters 11.1-11.3 of Cormen's book

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Exercises

Cormen Ex 4.4-6. Find a solution to the recurrence

$T(n) = T(n/3) + T(2n/3) + cn$, where $c > 0$ is a constant, using a recursion tree.

Cormen Ex 4.4-8. Use a recursion tree to give an asymptotically tight solution to the recurrence $T(n) = T(n - a) + T(a) + cn$ where $a \geq 1$ and $c > 0$ are constants.