Strassen's Marix Multiplication

$$\begin{bmatrix} \frac{1}{2} & \frac{2}{3} & \frac{1}{4} \end{bmatrix} \begin{bmatrix} 5 & 6 \\ 7 & 8 \end{bmatrix} = \begin{bmatrix} 1 \times 5 + 2 \times 7 & 1 \times 6 + 2 \times 8 \\ 3 \times 5 + 4 \times 7 & 3 \times 6 + 4 \times 8 \end{bmatrix}$$

Practice Question Divide & conquer approach

 $\frac{1}{2}$

Recursion

Recurrence Relation

Strassen's Matrix Multiplication

$$L(u) = O(u_{\log_{1}})$$

$$L(u) = O(u_{\log_{1}}) + u_{2}$$

$$T(n) = O(a_{3.81---})$$