

Lec 9/26

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Eliminating the k in $D^k(i, j)$.

Replace $D^{k-1}(i, j)$ by $D^k(i, j)$.

So we just have one matrix $D(i, j)$.

only need to know largest k s.t. $P^k[i, j]$.

So let $P(i, j)$ be that k .

Now only have n^2 memory not n^3 .

$$\Theta(n^3) \cdot \Theta(1) = \Theta(n^3)$$