\( P_1, P_2, P_3 \) are all dominated by \( P_4 \) but not \( P_5 \).
It was the best of times

valid sentence

subproblem

valid word

current step
for \( j = 1 \) to \( n \)

for \( i = 1 \) to \( j-1 \) do this loop backwards

\[ d[i+2,j] \]

need \( d[i+2,j] \)

to solve \( d[i,j] \)
too much memory
for any node of the graph we have an optimal path.
\[ T(m) = 2^7 \left( \frac{m}{2} \right) + o(nm) \]
\[
\begin{array}{c|c|c|c}
\frac{nm}{2\alpha} & & & \\
\hline
& & & \frac{nm}{2(1-\alpha)} \\
\end{array}
\]

\[\frac{nm}{\theta} + \frac{nn}{\theta} + \frac{nm}{4} \ldots \leq 2nm\]
\[ \frac{nm}{2} \times \frac{hm}{3} = nm \]