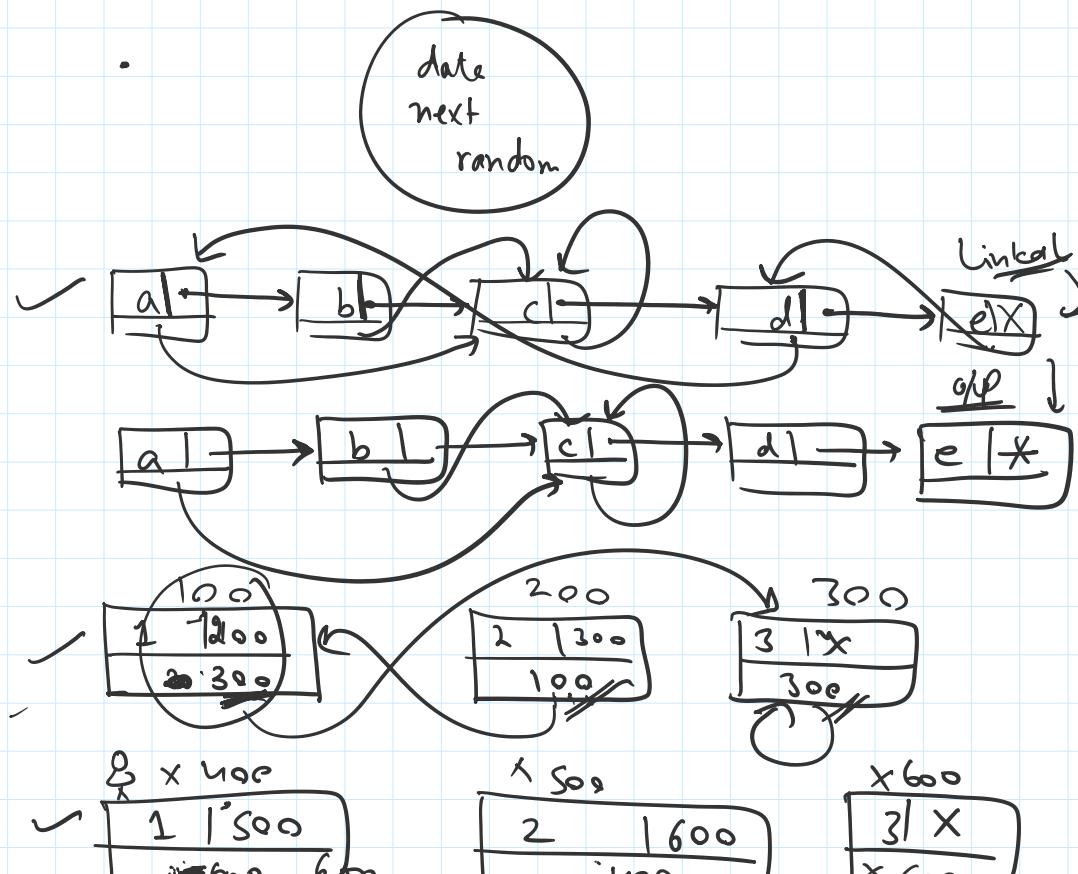
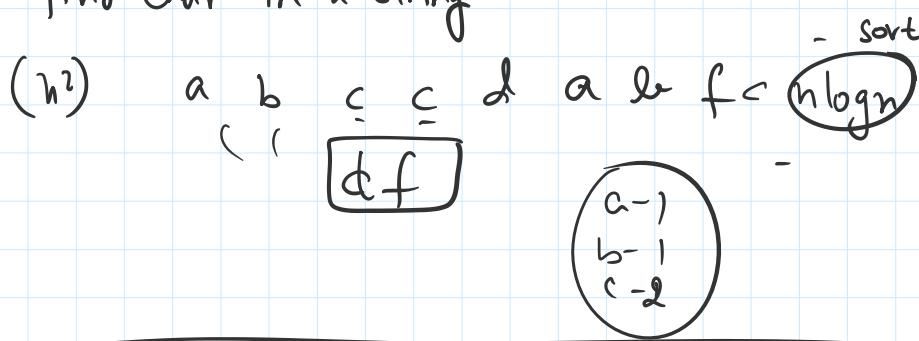


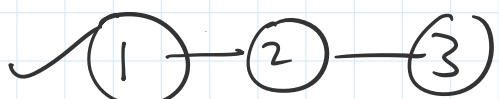
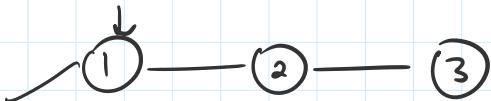
⇒ find char in a string



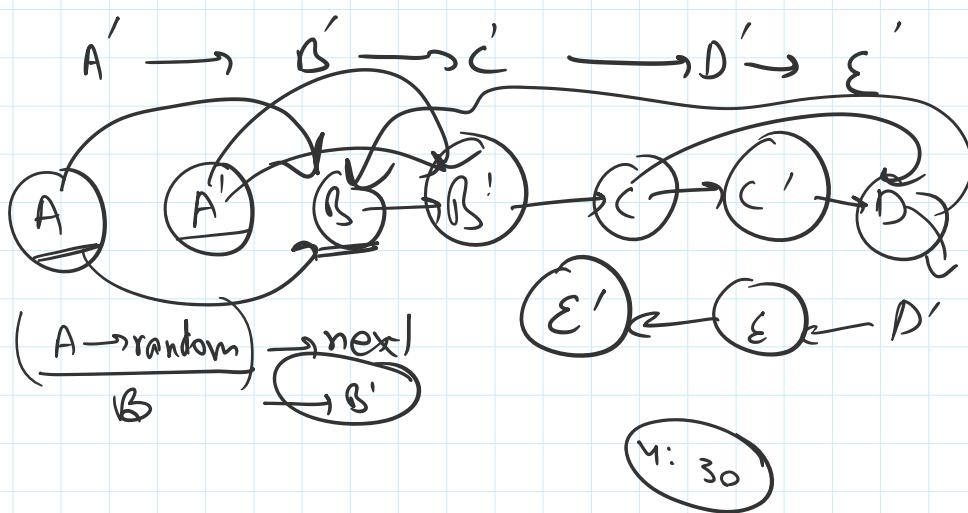
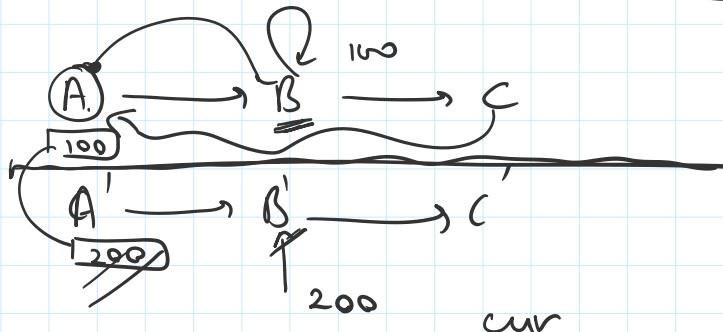
$$\checkmark \begin{array}{r} 1 \\ \times 600 \\ \hline 600 \end{array}$$

$$\begin{array}{r} 2 \\ \times 400 \\ \hline 800 \end{array}$$

$$\begin{array}{r} 31 \\ \times 600 \\ \hline 1800 \end{array}$$



$$\begin{array}{r} 100 \\ \times 400 \\ \hline 400 \\ \times 500 \\ \hline 200 \\ \times 600 \\ \hline 1200 \end{array}$$



- clone a random list
- unique char
- intersection

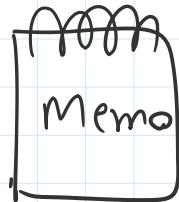
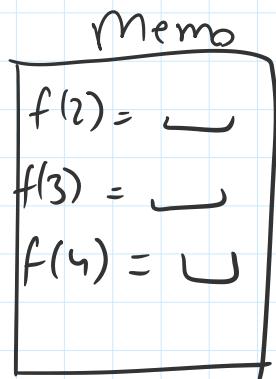
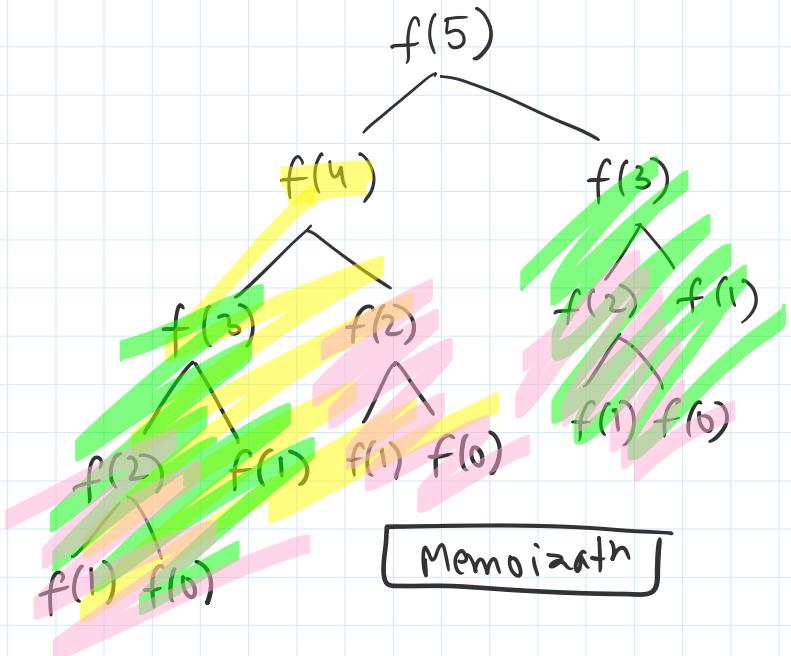
30 min



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Dynamic Programming

Dynamic Programming



$$18 / 3 = 1$$

$$\begin{matrix} / 3 \\ / 2 \\ -1 \end{matrix}$$

$$18 \xrightarrow{1} 6 \xrightarrow{2} 2 \xrightarrow{3} 1$$

$$(17 \rightarrow 16 \rightarrow 8 \rightarrow 4 \rightarrow 2 \rightarrow 1)$$

$$17 \rightarrow 16 \rightarrow 15 \rightarrow 5 \rightarrow 4 \rightarrow 2 \rightarrow 1$$

$$21 \rightarrow 7 \rightarrow 6 \rightarrow 2 \rightarrow 1$$

$$15 \rightarrow 5 \rightarrow 4 \rightarrow 2 \rightarrow 1$$

$$15 \rightarrow 14 \rightarrow 7 \rightarrow 8 \rightarrow 3 \rightarrow 1$$