Give the unification of the following feature structures:
(reproduced from Ann Copestakes NLP notes)

i) $\begin{bmatrix} F & \boxed{1} \\ G & \boxed{1} \end{bmatrix} \sqcup \begin{bmatrix} F & [J \;\; a] \\ G & \begin{bmatrix} J & [] \\ K & b \end{bmatrix} \end{bmatrix}$

ii) $\begin{bmatrix} F & \boxed{1}\; a \\ G & \boxed{1} \end{bmatrix} \sqcup [G \;\; b]$

iii) $\begin{bmatrix} F & \boxed{1} \\ G & \boxed{1} \end{bmatrix} \sqcup \begin{bmatrix} F & [J \;\; a] \\ G & \begin{bmatrix} J & b \\ K & b \end{bmatrix} \end{bmatrix}$

iv) $\begin{bmatrix} F & [G \;\; \boxed{1}] \\ H & \boxed{1} \end{bmatrix} \sqcup \begin{bmatrix} F & \boxed{1} \\ H & \boxed{1} \end{bmatrix}$

v) $\begin{bmatrix} F & \boxed{1} \\ G & \boxed{1} \\ H & \boxed{2} \\ I & \boxed{2} \end{bmatrix} \sqcup \begin{bmatrix} F & \boxed{1} \\ J & \boxed{1} \end{bmatrix}$

vi) $\begin{bmatrix} F & [G \;\; \boxed{1}] \\ H & \boxed{1} \end{bmatrix} \sqcup \begin{bmatrix} F & \boxed{2} \\ H & [J \;\; \boxed{2}] \end{bmatrix}$

Now return to the video