

F22-Exercise (Key)

Course in Semantics · Ling 531 / 731

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Rewrite the following assignment functions to fit the following modifications.

$$a = \begin{bmatrix} 1 \rightarrow \text{Sam} \\ 2 \rightarrow \text{Diane} \\ 3 \rightarrow \text{Cliff} \\ 4 \rightarrow \text{Norm} \end{bmatrix}$$

$$c = \begin{bmatrix} 1 \rightarrow \text{Meera} \\ 2 \rightarrow \text{Jeyne} \\ 3 \rightarrow \text{Missandrei} \\ 4 \rightarrow \text{Lollys} \end{bmatrix}$$

$\emptyset =$

$$b = \begin{bmatrix} 1 \rightarrow \text{Lorelai} \\ 2 \rightarrow \text{Rory} \\ 3 \rightarrow \text{Sookie} \\ 4 \rightarrow \text{Luke} \end{bmatrix}$$

$$d = \begin{bmatrix} 1 \rightarrow \text{Emma} \\ 2 \rightarrow \text{Charles} \\ 3 \rightarrow \text{Rodolphe} \\ 4 \rightarrow \text{Léon} \end{bmatrix}$$

(The empty assignment. It has an empty domain, so the function doesn't map anything to anything)

1. $a^{2 \rightarrow \text{Rebecca}} =$

$$\begin{bmatrix} 1 \rightarrow \text{Sam} \\ 2 \rightarrow \text{Rebecca} \\ 3 \rightarrow \text{Cliff} \\ 4 \rightarrow \text{Norm} \end{bmatrix}$$

2. $a^{1 \rightarrow \text{Diane}, 2 \rightarrow \text{Sam}} =$

$$\begin{bmatrix} 1 \rightarrow \text{Diane} \\ 2 \rightarrow \text{Sam} \\ 3 \rightarrow \text{Cliff} \\ 4 \rightarrow \text{Norm} \end{bmatrix}$$

3. $b^{5 \rightarrow \text{Paris}} =$

$$\begin{bmatrix} 1 \rightarrow \text{Lorelai} \\ 2 \rightarrow \text{Rory} \\ 3 \rightarrow \text{Sookie} \\ 4 \rightarrow \text{Luke} \\ 5 \rightarrow \text{Paris} \end{bmatrix}$$

4. $c^{3 \rightarrow \text{Nymeria}} =$

$$\begin{bmatrix} 1 \rightarrow \text{Meera} \\ 2 \rightarrow \text{Jeyne} \\ 3 \rightarrow \text{Nymeria} \\ 4 \rightarrow \text{Lollys} \end{bmatrix}$$

5. $d^{5 \rightarrow \text{Berthe}} =$

$$\begin{bmatrix} 1 \rightarrow \text{Emma} \\ 2 \rightarrow \text{Charles} \\ 3 \rightarrow \text{Rodolphe} \\ 4 \rightarrow \text{Léon} \\ 5 \rightarrow \text{Berthe} \end{bmatrix}$$

6. $a^{1 \rightarrow x}$

$$\begin{bmatrix} 1 \rightarrow x \\ 2 \rightarrow \text{Diane} \\ 3 \rightarrow \text{Cliff} \\ 4 \rightarrow \text{Norm} \end{bmatrix}$$

7. $\emptyset^{1 \rightarrow \text{Doyle}, 2 \rightarrow \text{Paris}} =$

$$\begin{bmatrix} 1 \rightarrow \text{Doyle} \\ 2 \rightarrow \text{Paris} \end{bmatrix}$$

8. $\emptyset^{1 \rightarrow \text{Orange}} =$

$$[1 \rightarrow \text{Orange}]$$

9. $b^{1 \rightarrow x} =$

$$\begin{bmatrix} 1 \rightarrow x \\ 2 \rightarrow \text{Rory} \\ 3 \rightarrow \text{Sookie} \\ 4 \rightarrow \text{Luke} \end{bmatrix}$$

10. $a^{1 \rightarrow x}$

$$\begin{bmatrix} 1 \rightarrow x \\ 2 \rightarrow \text{Diane} \\ 3 \rightarrow \text{Cliff} \\ 4 \rightarrow \text{Norm} \end{bmatrix}$$

11. $d^{1 \rightarrow e, 2 \rightarrow c, 3 \rightarrow r, 4 \rightarrow l} =$

$$\begin{bmatrix} 1 \rightarrow e \\ 2 \rightarrow c \\ 3 \rightarrow r \\ 4 \rightarrow l \end{bmatrix}$$

12. $c^{3 \rightarrow \text{Osha}} =$

$$\begin{bmatrix} 1 \rightarrow \text{Meera} \\ 2 \rightarrow \text{Jeyne} \\ 3 \rightarrow \text{Osha} \\ 4 \rightarrow \text{Lollys} \end{bmatrix}$$

13. $b^{[1 \rightarrow x]^2 \rightarrow z} =$

$$\begin{bmatrix} 1 \rightarrow x \\ 2 \rightarrow z \\ 3 \rightarrow \text{Sookie} \\ 4 \rightarrow \text{Luke} \end{bmatrix}$$

This one involves modifying an assignment that's already been modified!

14. $d^{[4 \rightarrow \text{Justin}]^4 \rightarrow \text{Lheureux}}$

$$\begin{bmatrix} 1 \rightarrow \text{Emma} \\ 2 \rightarrow \text{Charles} \\ 3 \rightarrow \text{Rodolphe} \\ 4 \rightarrow \text{Lheureux} \end{bmatrix}$$