## Chapter 11, Problem 7: Passive and Extraposition

A. Note that because we generalized the second argument of tv-lxm from [HEAD noun] to [HEAD nominal], assume can be an stv-lxm.

$$\left\langle \text{assume ,} \begin{bmatrix} stv\text{-}lxm \\ \text{ARG-ST} & \left\langle \text{ [INDEX } i \right] \text{, [INDEX } \square \right] \right\rangle \\ \text{SEM} & \left\{ \begin{bmatrix} \text{RELN} & \text{assume} \\ \text{SIT} & s \\ \text{ASSUMER } i \\ \text{ASSUMED } \square \end{bmatrix} \right\} \right|$$

- B. The third rule is the Constant Lexeme Lexical Rule, and the order is:
  - 1. Passive LR
  - 2. Constant Lexeme LR
  - 3. Extraposition LR
- C. Output of Passive LR:

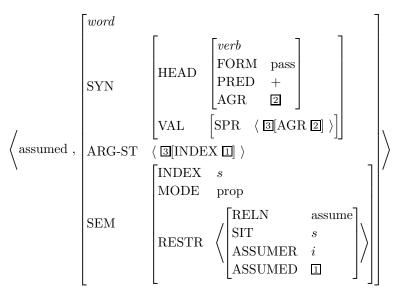
[Note that there is no by PP in this lexical sequence. All lexical rule outputs are fully resolved, and  $(PP[FORM\ by]_i)$  denotes a kind of underspecification (between having the PP and not having it). Here we have resolved that underpsecification to NOT having the PP, as is appropriate for the use of assume in sentence (i).]

$$\left\langle \text{assumed ,} \begin{bmatrix} \text{part-lxm} \\ \text{HEAD} & \begin{bmatrix} \text{verb} \\ \text{FORM pass} \\ \text{PRED} & + \\ \text{AGR} & \boxed{2} \end{bmatrix} \right\rangle$$

$$\left\langle \text{assumed ,} \begin{bmatrix} \text{ARG-ST} & \langle \text{[INDEX $\ $]} \rangle \\ \text{INDEX } & s \\ \text{MODE prop} \end{bmatrix} \right\rangle$$

$$\left\langle \text{SEM} & \begin{bmatrix} \text{RELN} & \text{assume} \\ \text{SIT} & s \\ \text{ASSUMER } & i \\ \text{ASSUMED} & \boxed{1} \end{bmatrix} \right\rangle$$

Output of Constant Lexeme LR:



## Output of Extraposition LR:

