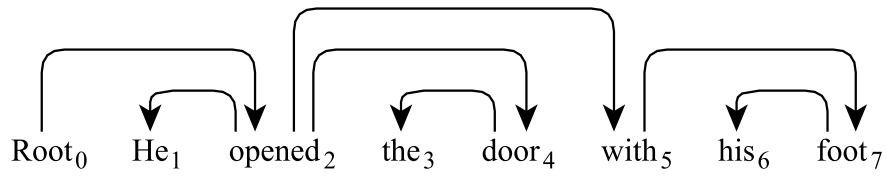


Show the sequence of transitions in a shift-reduce parser that would result in the following dependency tree.



| | | |
|-----------------------|--|---|
| Initialization | $\langle S = [w_0], I = [w_1, \dots, w_n], A = \emptyset \rangle$ | |
| Termination | $\langle S, [], A \rangle$ | |
| Left-Arc | $\langle w_i S, w_j I, A \rangle \Rightarrow \langle S, w_j I, A \cup \{w_i \leftarrow w_j\} \rangle$ | $\neg \exists w_k. (w_i \leftarrow w_k) \in A$ |
| Right-Arc | $\langle w_i S, w_j I, A \rangle \Rightarrow \langle w_j w_i S, I, A \cup \{w_i \rightarrow w_j\} \rangle$ | $\neg \exists w_k. (w_k \rightarrow w_j) \in A$ |
| Shift | $\langle w_i S, w_j I, A \rangle \Rightarrow \langle w_j w_i S, I, A \rangle$ | |
| Reduce | $\langle w_i S, w_j I, A \rangle \Rightarrow \langle S, w_j I, A \rangle$ | $\exists w_k. (w_i \leftarrow w_k) \in A$ |