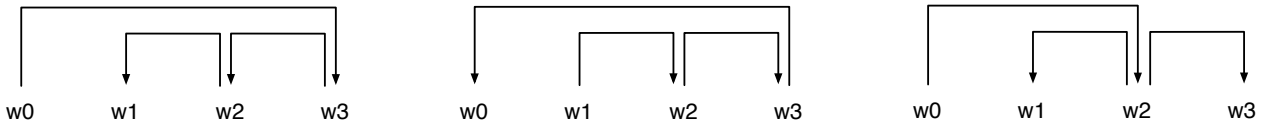
1. Consider the following sentence and the corresponding (unlabeled) dependency tree (represented by the set of edges).

(1) $\text{ROOT}_0$ $\text{I}_1$ $\text{would}_2$ $\text{like}_3$ $\text{it}_4$ $\text{to}_5$ $\text{have}_6$ $\text{a}_7$ $\text{stop}_8$ $\text{in}_9$ $\text{Boston}_{10}$

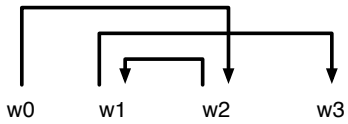
(2) ⟨0, 2⟩, ⟨2, 1⟩, ⟨2, 3⟩, ⟨3, 6⟩, ⟨6, 4⟩, ⟨6, 5⟩, ⟨6, 8⟩, ⟨8, 7⟩, ⟨8, 9⟩, ⟨9, 10⟩

Parse the sentence using the first algorithm from the lecture: give a sequence of transitions and specify for each step which operation has been used.

2. Which of the following dependency structures are projective?




3. Consider the following nonprojective dependency tree:




Try to specify a sequence of transition steps using the second algorithm from the lecture.