Computational Linguistics, Exercise sheet 4

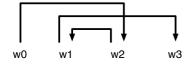
- 1. Consider the following sentence and the corresponding (unlabeled) dependency tree (represented by the set of edges).
- (1) ROOT<sub>0</sub> I<sub>1</sub> would<sub>2</sub> like<sub>3</sub> it<sub>4</sub> to<sub>5</sub> have<sub>6</sub> a<sub>7</sub> stop<sub>8</sub> in<sub>9</sub> Boston<sub>10</sub>
- (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.