Dependency Parsing:
Week 13 Quiz

Deadline: 12.07.2021. Please send completed solutions to evang@hhu.de with subject “dependency homework" and attachment ex13_lastname(s).pdf.

1. Indicate whether the following statements are true or false.

	TRUE	FALSE
The Eisner algorithm finds non-projective trees.		
In the Eisner algorithm, the COMBINE LEFT rule creates an L-item and a dependency edge, both with the same span.		
The output of the Chu-Liu-Edmonds algorithm is a graph without cycles.		
In a biaffine dependency parser, edge weights are computed by a neural network.		
Transition-based parsers require feature engineering, whereas graph-based parsers don’t.		
In Universal Dependencies v2, prepositions are treated as the root of their prepositional phrases.		
In Universal Dependencies v2, prepositions are marked with the dependency label CASE.		
In the arc-standard transition system, once a word has an incoming edge, it can no longer receive any outgoing edges.		
In the arc-eager transition system, after a word is SHIFTed onto the stack, the next transition gives it an incoming edge.		
In a dynamic oracle, an “optimal” transition is defined as a transition that is part of a correct transition sequence.		

2. Pick one of the following two sentences and draw a dependency tree for it that conforms to the Universal Dependencies v2 guidelines.

   (a) Armin Laschet verweigert auch im „Brigitte“-Gespräch eine Ansage an Hans-Georg Maaßen und gibt sich ganz entspannt.

   (b) Two others suspected of being involved in the fatal attack on President Jovenel Moïse were arrested, he said.