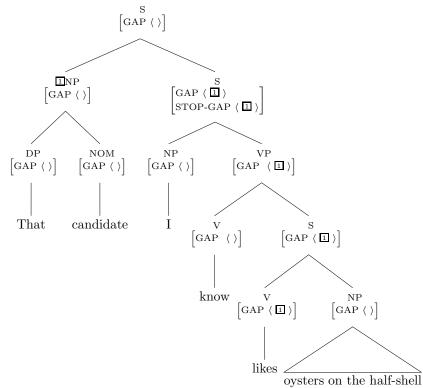
Chapter 14, Problem 3: Subject Gaps





The GAP value for the word structure for *likes*, introduced by the Subject Extraction Lexical rule, is the same as that in all of its dominating nodes up to second highest S node. This is because of the GAP Principle, which guarantees that the GAP value for any node is the sum of the GAP values of its daughters, minus the STOP-GAP value of the head-daughter (and because all the other nodes have empty GAP lists). The very top of the tree is licensed by the Head-Filler Rule, which requires the initial NP to be identical to the GAP value of its sister.

C. Yes, we properly rule out *Those candidates, I think likes raw oysters. The crucial thing to notice in this example is that the word structure for likes requires a third-person singular NP in its GAP, and that information is shared with all of the nodes on the path up to the top of the tree. Those candidates is [AGR non-3sing], so it cannot unify with the NP in the GAP value of the S node that is its sister. But the Head-Filler Rule requires the initial constituent to unify with the GAP value of its sister. Hence, the example will not be generated.