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Grammar Development in Constraint-Based Grammar Formalisms

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Exercise Sheet 4

In preparation of this exercise, please create a subdirectory `sample-grammars/ex4` under one of your directories. Please copy the files `signature` and `theory` from our directory `sample-grammars/ex3.2` to your new subdirectory.

The grammar in `sample-grammars/ex3.2` represents the simple sentence grammar for English which we developed step by step in the previous exercises. It employs lexical entries, ID schemata and grammatical principles to license sentences with intransitive, transitive, and ditransitive verbs.

Your task is to modify this grammar to include verbs like *think* which take sentential complements such as *he walks.* Please extend the grammar in such a way that `thinks` combines with its sentential complement to form a VP and then with simple nominative NPs such as *I* to form sentences such as *I think she walks.*