## **Deduction Systems**

## Tutorial 4

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**Exercise 3.1.** Apply the CDNL Algorithm to the program P to trace the stable model  $\{b, c, d, e\}$ . Highlight the steps of the nogood propagation, unfounded set checking and (if needed) conflict analysis.

$$P = \{ \begin{array}{ccc} a \leftarrow not \ b; & c \leftarrow a; & d \leftarrow b, c; & e \leftarrow b, not \ a; \\ b \leftarrow not \ a; & c \leftarrow b, d; & d \leftarrow e; & e \leftarrow c, d \ \} \end{array}$$