Christoph Weidenbach   **October 21, 2014**

Tutorials for "Automated Reasoning"
Exercise sheet 1

Exercise 1.1: *(2 P)*
Improve the Sudoku rule system. Refine the rule Deduce so that it does not generate an immediate constraint violation.

Exercise 1.2: *(2+2+2 P)*
Prove for the improved rule system that it is sound, complete, and terminating.

Exercise 1.3: *(4 P)*
Develop a deterministic algorithm in some imperative while-style pseudo programming language that solves 4×4 Sudokus.

Submit your solution in lecture hall E1.3, Room 002 during the lecture on October 28. Please write your name and the date of your tutorial group (Tue, Wed) on your solution.

Joint solutions are not permitted, please submit individually. However, I encourage you working and solving the exercises in a group.