Theorem Proving and Equality

Exercise 13 *Explain backward subsumptions on Otter input files created for exercises: 9, 11.*

`for_sub` *and* `back_sub` *are default options. Option* `print_back_sub` *is also set by default.*

In Spass: set flags: RTaut to 1 (reduction of syntactic tautologies), RFSub to 1 (forward subsumption), RBSub to 1 (backward subsumption), PSub to 1 (printing subsumptions).

Exercise 14 *Look at MSC007-2.005.p in TPTP.*

Modify the problem to only 3 pigeons and 2 holes. Try to solve it with Otter. Use superposition.

Try the same with COM008+2.p.

Exercise 15 *Superposition on equations. Run Otter on the provided example and look what happens when no empty clause is found.*

Do the same on the axioms for group theory.