

RESOLUTION

function resolution(problem) returns soln or failure

clauses \leftarrow convert-to-CNF (problem)

new \leftarrow empty ~~and~~ set

loop

~~for~~

pairs \leftarrow all pairs of clauses in clauses

for each (c_i, c_j) in pairs do

resolvent \leftarrow resolve (c_i, c_j)

if resolvent has an empty clause
return "success"

add resolvent to new

if new \subseteq clauses return failure

clauses \leftarrow clauses \cup new