Resolution for propositional calculus (Davis Putnam Procedure) - Exercise

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Exercises

Use the Davis-Putnam Procedure (DPP) to show that the set of clauses below is not satisfiable. (If the clauses originated from the premises and the negation of conclusion of an argument in propositional calculus, the set of clauses being not satisfiable implies that the argument is valid.) Eliminate the variables in the order $P, Q, R, S, T$.

{\neg P, \neg Q} \quad {\neg Q, R, T} \\
{Q, \neg R, T} \\
{Q, R, \neg T} \quad {\neg Q, \neg R, \neg T} \\
{\neg R, S} \quad {R, \neg S} \\
{\neg P, S, T} \quad {P, \neg S, T} \\
{P, S, \neg T} \quad {\neg P, \neg S, \neg T}