Homework, the 3rd series


(1) Prove that a variant of \textit{CNF SAT}, where each variable occurs at most twice, is in the class P.

\textit{Hint.} You may use an algorithm for matching in bipartite graph.

(1) Prove that a variant of \textit{CNF SAT}, where each clause is a Horn clause or contains exactly two literals, is NP-complete.

\textit{Reminder.} In a Horn clause, at most one literal is a variable (the others are negations of variables).