

Homework

1. Consider a graph with n nodes. Encode the reachability relation between all nodes in SAT. Hint: You can consider the Warshall algorithm.
2. Prove that 2-SAT is in P . Hint: Think of the graphs used represent planar SAT in the lecture.
3. Give a formal definition of a legal window from lecture.
4. Augment the encoding of SAT from the theory lecture, such that a satisfying assignment can be read off from the transitions selected in an accepting computation.