I618 Advanced Computer Science II (Part II)

Deadline: January 31 (Thu)

Problem 1 (11 points): Prove the Helly property for the set of intervals.

Problem 2 (11 points): Prove that the graph isomorphism problem can be solved in linear time for trees.

Problem 3 (11 points): Prove that any vertex can be the last vertex of a perfect elimination ordering on a chordal graph.