February 27, 2014 Outline

Reading: §16; paper [HS97] Assignment due: Homework #3, due March 4, 2014
Project: due March 21, 2014

- 1. Entropy-based analysis
 - a. Flow of information from x to y
 - b. Implicit flow of information
- 2. Non-lattice policies
 - a. Transitivity
 - b. Information flow policy
 - c. Confinement flow model
- 3. Transitive non-lattice policies
 - a. Quasi-ordered sets
- 4. Non-transitive policies
 - a. Dual mappings
 - b. Theorem: a dual mapping from a reflexive information flow policy into an ordered set is orderpreserving
- 5. Compiler-based flow mechanisms
 - a. Scalar declarations
 - b. Array declarations
 - c. Assignment statements
 - d. Compound statements
 - e. Conditional statements
 - f. Iterative statements
 - g. Goto statements
 - h. Procedure calls