

CS 401
Fall 2015
Programming Assignment 1
Due: Saturday, October 10

Implement the following Racket procedures:

1. A procedure called **Transitive?** that takes as input a list of pairs interpreted as a binary relation and returns **#T** if it is transitive and **#F** otherwise.
2. A procedure called **Anti-transitive?** that takes as input a list of pairs interpreted as a binary relation and returns **#T** if it is anti-transitive and **#F** otherwise.
3. A procedure call **Irreflexive?** that takes as input a list of pairs interpreted as a binary relation and returns **#T** if it is irreflexive and **#F** otherwise.
4. A procedure called **Compose** that takes as input two sets of pairs interpreted as binary relations and returns their composure.