

17-355/17-655/17-819: Program Analysis

Lecture 21, Model Checking

In-Class Exercises

April 4, 2019

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1. Write each of the following properties in linear temporal logic (LTL):

a) If the door is locked, it will not open until someone unlocks it. (you may assume the atomic predicates *locked*, *unlocked*, and *open*)

b) If you press ctrl-C, you will get a command line prompt

c) The saw will not run unless the safety guard is engaged