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Exercise 1.1. Consider the following

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**Exercise Solution:** Give the transition system representation of C.

Exercise 1.2. Consider the following street junction with the specification of a traffic light as outlined on the right.

1. Choose appropriate actions and label the transitions of the traffic light transition system accordingly.
2. Give the transition

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Exercise Solution  
system representation of a (reasonable)  
controller C that switches the green signal  
lamps in the following order: A.

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LTL model checking using a tableau  
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5.5 Exercises EXERCISE 5.1. Consider the following transition system over the set of atomic propositions  $\{a, b\}$ . Indicate for each of the following LTL formulae the set of states for which these formulae are .

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(Continued) (d)  $\hat{e}_i$  0.714286 0.228571  
?1.257143 0.257143 ?1.228571 1.285714

$\hat{e}_i$  (e)  $\hat{e}_i$  EXERCISE 2.6 (a) The  
intercept estimate  $b_1 = 240$  is an estimate of  
the number of sodas sold when the  
temperature is 0 degrees Fahrenheit.

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David N. Jansen and Frits W.

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Vaandrager), Holger Hermanns (Saarland University), Dave Parker (Oxford University, UK), Stephen Siegel (University

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