Running your code:
Go to the code file location and type:
NuSMV -int

Then, running the file: NuSMV > read\_model -i *filename.smv* NuSMV > go

## 1. file: sol3ch csatimer

// TRUE. No counterexample with a system with mitm check\_ltlspec -p "F((STA\_location = STA\_AP\_Con\_ChX & AP\_location = AP\_STA\_Con\_ChX)| (STA\_location = STA\_AP\_Con\_ChY & AP\_location = AP\_STA\_Con\_ChY)| (STA\_location = STA\_AP\_Con\_ChZ & AP\_location = AP\_STA\_Con\_ChZ)| (STA\_location = STA\_Discon & AP\_location = AP\_Discon)"

## 2. file: sol3ch preambletimer

// False – counterexample will show that a wrong combination of preamble bits (i.e., random wrong combination of a signature slice, etc.) leads to "failed" connection establishment

 $\begin{array}{l} \text{check\_ltlspec-p} \text{ "F((STA\_location = STA\_AP\_Con\_ChX \& AP\_location = AP\_STA\_Con\_ChX)| (STA\_location = STA\_AP\_Con\_ChY \& AP\_location = AP\_STA\_Con\_ChY)| (STA\_location = STA\_AP\_Con\_ChZ \& AP\_location = AP\_STA\_Con\_ChZ)| " \\ \end{array}$ 

## 3. file: sol3ch\_frametimer

False, connection will fail as fake\_frame (break in chaining, spoofed frame elements, etc.) does not carry the correct slice check\_ltlspec -p "F((STA\_location = STA\_AP\_Con\_ChX & AP\_location = AP\_STA\_Con\_ChX)| (STA\_location = STA\_AP\_Con\_ChY & AP\_location = AP\_STA\_Con\_ChY)| (STA\_location = STA\_AP\_Con\_ChZ & AP\_location = AP\_STA\_Con\_ChZ))"