```
- Module Example1_Simple -
 Instantiate and model check a simple Petri Net. The net has a source place, a sink place, 1
 transition, and an initial marking with 1 token in the source place.
     source -> | t1 | -> sink
Places \stackrel{\triangle}{=} \{ \text{"source"}, \text{"sink"} \}  Define the net.
Transitions \stackrel{\triangle}{=} \{ \text{"t1"} \}
Arcs \stackrel{\Delta}{=} [
     source \mapsto \{\text{"t1"}\},\
     t1 \mapsto \{\text{"sink"}\}
ArcWeights \triangleq \langle \rangle Unspecified arc weights default to 1. 

InitialMarking \triangleq [source \mapsto 1]
VARIABLE Marking
PN \stackrel{\triangle}{=} INSTANCE PetriNet Instantiate it within a namespace.
Spec \stackrel{\Delta}{=} PN!Spec Make Spec and Invariants available for the config file.
Invariants \stackrel{\triangle}{=} PN! Invariants
Properties
 Eventually, we arrive as a expected final marking...
ReachableMarking \triangleq PN!Reachable([sink \mapsto 1])
 and we never leave it.
FinalMarking \triangleq PN!FinalMarking([sink \mapsto 1])
BoundOne \stackrel{\triangle}{=} PN!Bound(1)
IsStateMachine \triangleq PN!IsStateMachine
```