## ModelChecker

ts: TransitionSystem

- RestrictedExample(): **TransitionSystem** 

- TowerOfHanoiExample(): **TransitionSystem** 

## State

visited : boolean

initialState: boolean

stateNr: int

ap : List<String>

targets: List<Integer>



Has

## **TransitionSystem**

states : LinkedList<State>

+ add(stateNr : int, initState: boolean. aps: String[].

targets: int[]): void

- getStateBvID(stateNr : int) : State
- + printStates(statesToPrint: List<State>): void
- + ctlTT(): List<State>
- + ctlNOT (List<State>: satPhi):
- + ctIAND (satPhi1 : List<State>. satPhi2 : List<State>) :

List<State>

List<State>

List<State>

- + ctIAP (ap : String) : List<State>
- + ctlEX (satPhi : List<State>):
  - + ctlAX (satPhi : List<State>):
  - List<State>

- + ctlEF (satPhi : List<State>): List<State>
- List<State> + ctlEG (satPhi : List<State>):

+ ctlAF (satPhi : List<State>):

- List<State> - F( C : List<State>): List<State>
- + ctlAG (satPhi : List<State>): List<State>
- chkAG (state : State. stateNrs: List<Integer>): boolean

boolean

- + ctlCheckInitialStates( satPhi : List<State>):
- invertedSet( unwanted :
- List<State>): List<State>
- resetVisited ( ): void