

Stratagem

A guideline to do the TP3

What is Stratagem?

- ➊ It's a set of terms rewriting system

- ➋ It supports multiple input files
 - ➊ Petri net in the form of a PNML
 - ➋ Divine code
 - ➌ A transition system

- ➌ We will use it only with a **transition system**

What can we understand from a transition system (1/2)

- ➊ Sorts
 - ➌ The types of data modeled
- ➋ Generators and operations
 - ➌ Signature same as an ADT
- ➋ Variables

What can we understand from a transition system (2/2)

- ➊ The initial state
 - ➋ The term that we want to rewrite
- ➋ Strategies
 - ➌ Strategies (à la TOM)
 - ➌ Rewriting rules
- ➌ Transitions
 - ➋ Actual rewriting steps of our term

Executing stratagem

- ➊ Compute the state space of our problem
 - ➋ All terms in which the initial term can be rewriting in-between each transition
 - ➋ We will use that to understand what is rewritten and what is not

Executing stratagem Understanding the FAIL

- If we fail to rewrite a term, the strategy/transition fails
- If it fails, no new terms are added to the state space

Example