

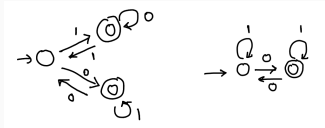
Games, graphs, and machines

[illegible]

September 25, 2024

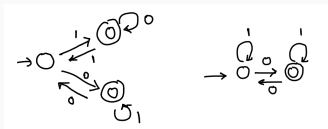
Automata LEGO

Given are two automata for languages L and M . Construct (non-deterministic) automata for $L|M$ and LM and L^* .



Automata LEGO

What if we wanted DFAs for $L|M$ and LM and L^* ?



Regex to automata

Construct a non-deterministic automaton for $(01)^*|(10)^*$.

More NFA LEGO

Given an automaton with language L , can you construct an automaton with language L^{rev}

$$L^{\text{rev}} = \{\text{Reverses of all the words in } L\}.$$