

Model Checking

Homework 7

Deadline: 25th Mai 4:00pm

Send solution to: modelchecking@iaik.tugraz.at

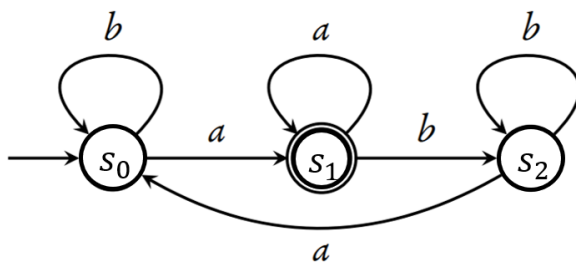
Intersection of Büchi Automata

[2 Points] What are the languages $L(B_1)$ and $L(B_2)$ of the two Büchi automata B_1 and B_2 , respectively?

[1 Point] What is the language $L(B_1) \cap L(B_2)$?

[7 Points] Construct the intersection of the Büchi automata $(B_1) \cap L(B_2)$ that accepts $L(B_1) \cap L(B_2)$. Use the algorithm discussed that we discussed in the lecture. You can find the algorithm also in the Model Checking book on page 89.

Büchi automata B_1



Büchi automata B_2

