Randomised Algorithms Winter term 2022/2023, Exercise Sheet No. 9

Authors:

Ben Ayad, Mohamed Ayoub Kamzon, Noureddine

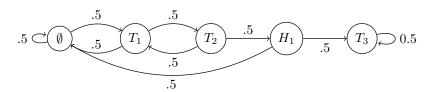
December 20, 2022

Exercise 1.

(a) Let's say w.l.o.g that a^* satisfies the first literal (and only the first) of every clause, then $\neg a$ would satisfy the second literal of each clause, and hence, $\neg a$ would also be a satisfied assignment.

Exercise 2.

(a) The figure below represents the Markov Chain of interest:



(b)