Homework 10 (Extra Credit) Com S 331, Spring 2017

Due date: Friday, April 21, 2017

Please submit the homework via BlackBoard before midnight.

Note: All submissions should be **typed** and in .pdf or .doc(x) format. However, state diagrams can be drawn with hand and presented in the final manuscript as images. We recommend to use Latex for typing homeworks. You **do not** need to formally prove the correctness of your constructions unless a question specifically asks to do so. However, in most cases you need to present a reasonable justification of correctness.

Total points available: 120

- 0. Please read chapter 4 from the class-book (Sipser, 3rd edition).
- 1. (20 points) Solve Problem 4.11 from the class-book.
- 2. (20 points) Solve Problem 4.17 from the class-book.
- 3. (30 points) Solve Problem 4.26 from the class-book.
- 4. (20 points) Solve Problem 4.28 from the class-book.
- 5. (30 points) Solve Problem 4.30 from the class-book.