Assignment 2

Released: 25 Sep - Due: 2 Oct *TA: Manoj M P*

Some of the problems are from the textbook (Sipser).

1. Problem 1.31 (Note: You must show that all-paths-NFAs recognize *exactly* the class of regular languages. In particlar show that any language accepted by an all-paths-NFA is regular.)
2. Problem 1.13 l.
3. Problem 1.14 a
4. Problem 1.23 d.
5. Show that $\{1^p | p \text{ is a prime number}\}$ is not regular.
6. Problem 1.37. Also, show that F (defined there) is not regular.

* 7. Problem 1.43