

Homework Set # 1

Due January 15, 2003

Total 12 points (each problem 2 points).

Reading: Sipser – Chapter 1.1 and 1.2

1. Sipser 1.4 a,b/p.84
 2. Sipser 1.5 a,b/p.84
 3. Sipser 1.7 (for 1.4 c,d)/p.84
 4. Sipser 1.8 (for 1.4 n)/p.84
 5. Sipser 1.9/p.85 (Prove the correctness of your construction, i.e. show that the two automata recognize the same language.)
 6. Sipser 1.12a/p.85
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Assignment guideline

- Homework assignments will be normally posted on the class website until Friday.
- They will be due the following Wednesday at the beginning of the class.
- Your graded homework will be returned on Monday.
- Remember to staple all pages of your work.
- Do not use paper ripped out of a spiral.