

Computer Science 81, Spring 2007
Assignment 4
Due Wed. Feb. 14

Grammars and PDA's

When page numbers are given, the problems are in the Kozen book.

1. [30 points] Page 306, exercise 2. (Although this is similar to the example on page 136, make your proof self-contained, don't have your answer depend on that proof. Note also that there are two parts to the proof: (a) Every string generated by the grammar has the indicated property, and (b) Every string with the property is generated by the grammar.)
2. [20 points] Page 334, exercise 71.
3. [20 points] Page 306, exercise 4.
4. [20 points] Page 307, exercise 4, Chomsky normal form only. You do not need to give a proof.
5. [10 points] Page 336, exercise 84e.