

Homework #8 due May 31

1. Linz, Section 11.1: 10, 16, 19
Section 11.2: 8

2. Let $L = \{ww : w \in \{a,b\}^+\}$.

- (a) Design a single-tape Turing machine that accepts this language.
- (b) Design a more efficient multi-tape Turing machine for this language.
- (c) Find an unrestricted grammar that generates this language.

Please submit JFLAP files for problems 2(a), (b) and (c).

For example, if you're submitting the file "problem_2a.jff"s, use the following command on your CSIF account:

```
> handin shini hw8 problem_2a.jff
```