There are three problems to be handed in. The first two problems are fairly standard pumping lemma problems. On an exam, you may be expected to do such problems quickly and precisely. If you want more practice, then do more problems from the book, or consult the prefect or me.

A. Problem 2.30a (about $0^m1^m0^m1^m$).

B. Problem 2.31 (about palindromes with equal numbers).

The last problem is very difficult, unless you take the hint seriously, in which case it becomes manageable.

C. Problem 2.36 (about a pumpable language that isn't context-free).