**Assignment 4**

1. (10 pts) Convert the following CFG into an equivalent CFG in Chomsky normal form.

A → BAB | ABA | B | ε   
B → 00 | ε

1. (10 pts) Use the pumping lemma to prove that the language A = {02n 13n 0n | n ≥ 0} is not

context free.

Notes:

* Submit your answers to Blackboard. No hard copies.
* Handwritten answers are accepted but should be legible.