

Homework #5
CS322/KAIST 2011 FALL
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Exercise 1 (10pt) Construct CFG for the following languages.

- a. $L = \{x \in \{0, 1\}^* \mid \text{each prefix of } x \text{ has at least as many 0's as 1's}\}$. (5pt)
- b. The set of all strings of a's and b's that are not of the form ww , that is not equal to any string repeated. (5pt)

Exercise 2 (10pt) Construct CFG for $L = \{a^n b^m c^k \mid n=m \text{ or } m \leq k, n, m, k \geq 0\}$.