CSE 2001

Homework Assignment #8 Due: November 24, 4:00 p.m.

- **1.** Let $L = \{0^i 1^j 2^k : i < j < k\}$. Is the language L context-free? Prove your answer is correct.
- 2. Let L be the set of all binary strings that contain more than twice as many 0's as 1's. For example 1011000010000 is in L since there are 9 0's in the string and 4 1's and $9 > 2 \cdot 4$. Draw the transition diagram of a PDA that accepts L. You do not have to give a formal proof that your PDA is correct, but give a high-level explanation of how it works in a couple of sentences.