

CS 181 Spring 2020 Homework Week 5

Assigned Tue 4/28; Due via GradeScope Mon 5/4 6:00pm

1. Let alphabet $\Sigma = \{a, b, c\}$, and consider

$$L_1 = \{w \in \Sigma^* \mid \text{more than half the symbols in } w \text{ are } c\text{'s}\}.$$

Prove that L_1 is not FS using *the pumping lemma*.