

CS3133
HW #7

DUE: Monday, October 16

1. (9 points) Do **Exercise 18** on page 255 of our text.
2. (4 points) Do **Exercise 27** on page 256 of our text.
3. (9 points) *a)* Construct a regular expression to describe the language L consisting of all strings over $\{a,b,c\}^*$ which have at least one b and the first b is preceded by the string cc . That is, $acacabccc \notin L$, $ccc \notin L$, and $cccaab \in L$.
b) Construct a Turing Machine to accept L by final state.