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, $\text{acacabccc} \notin L$, $\text{ccc} \notin L$, and $\text{cccaab} \in L$.
   
   b) Construct a Turing Machine to accept $L$ by final state.