Homework Problems 6: Due November 5

Answer these questions throughout the upcoming week and bring this completed sheet to turn in at the beginning of CS103A next week.

Lecture 14: Finite Automata, Part I

i. What does $\Sigma$ represent in formal language theory?

ii. What does $\epsilon$ represent in formal language theory?

iii. What does $\Sigma^*$ represent in formal language theory?

iv. What is a DFA?

v. What does the language of an automaton refer to?

Lecture 15: Finite Automata, Part II

i. What is a regular language?

ii. What is the complement of a language?

iii. What is an NFA? How is it different from a DFA?