

CS 334 – Fall 2004: Assignment 3

1. Page 66, 2.3.1
2. Page 80 2.5.1
3. Draw a FSA that recognizes C++ identifiers.
4. If L can be recognized by a finite state machine, show that the complement of L can also be recognized by a FSA.
5. Show that the language of strings over $\{x, y\}$ that consists of strings not containing three consecutive x 's can be recognized by a FSA.
6. Suppose a language L can be recognized by a FSA. Show that the language $\{w^R \mid w \in L\}$ can also be recognized by a FSA.
7. picture to be given in class.