Homework #3: Scanning

Issued: Monday, March 2
Due: Wednesday, March 11

Purpose

This assignment allows you to become familiar with topics associated with lexical analysis.

Textbook Exercises

Exercise 3.1.1 (page 114): Scan for C tokens. Underline each token.

Exercise 3.1.2 (page 114): Scan for HTML tokens. Underline each token.

Exercise 3.3.5 (page 125), parts a–c, f, and h–i: Write regular definitions. Some of these are hard. If you cannot construct a regular definition, draw a finite automaton instead, which can be much easier.

Exercise 3.7.3 (page 166): Convert regular expressions to NFA's, then to DFA's. For credit, show your work.