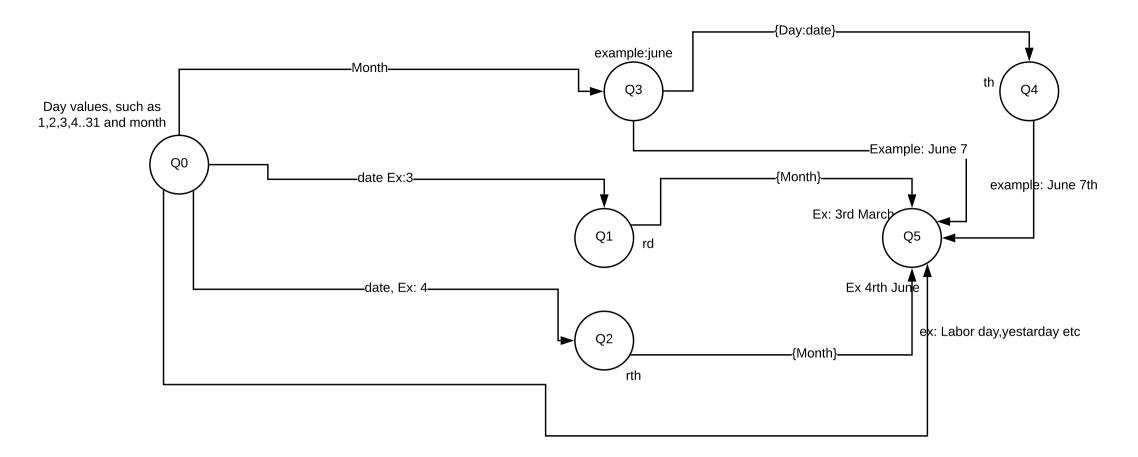
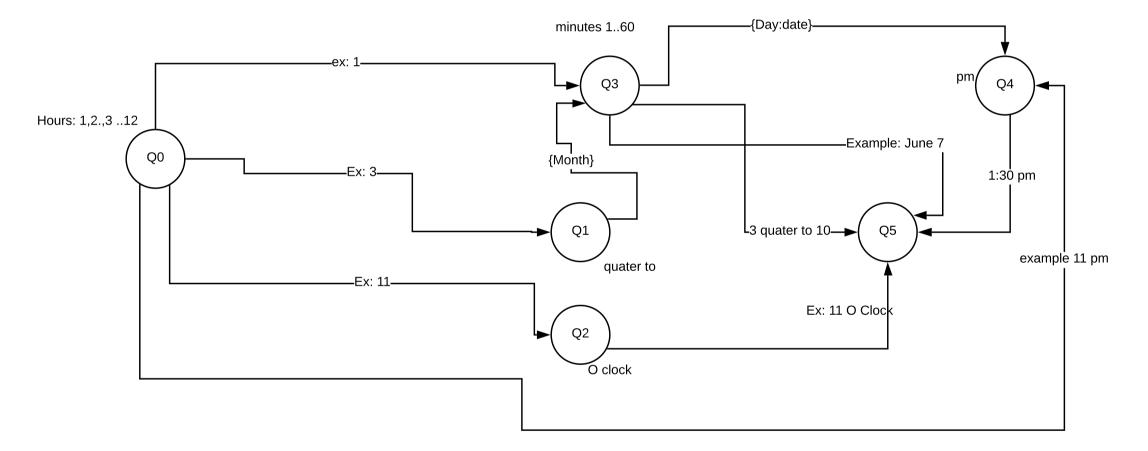
1. Design an FSA that recognizes simple date expressions, like June 7, the 3rd of October, and Labor Day. You should try to include all such "absolute" dates (not ones relative to the current date, like yesterday). Each edge of the graph should have a word or a set of words on it. You should use some short of shorthand for classes of words to avoid drawing too many arcs (e.g clothing -> shirt, pants, socks).



2. Write an FSA for time-of-day expressions like eleven o'clock, twelve-thirty, midnight, or a quarter to ten, and others.



3. Write a regular expression for the language accepted by the NFSA in figure below.

Ans: I don't know how to solve this.

- 4. Give examples of each of the noun and verb classes recognized by the FSA found on slide 18 of the Finite-State Transducers slides, and find some exceptions to the rules.
  - 1. computerization
  - 2. proactiveness
  - 3. collectiveness
  - 4. fairness
  - scarcity
- 5. Give examples of each of the noun and verb classes recognized by the FSA found on slide 18 of the Finite-State Transducers slides, and find some exceptions to the rules.