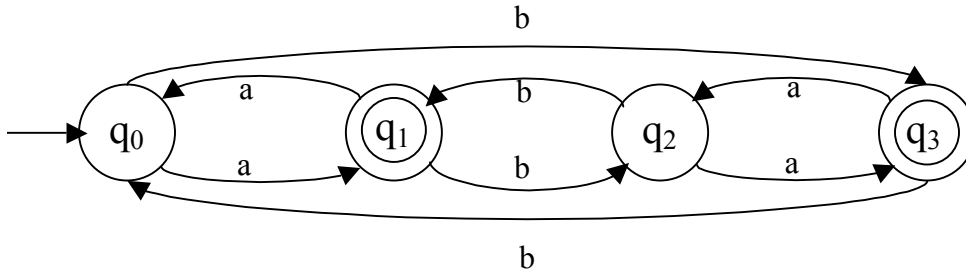


Finite Automaton

Assignment:

In Section 9.4 of the text, there is a discussion about the representation of a FA using Prolog. Example 9.10 shows you how to do this with some generality. Using this approach, develop Prolog code that accepts strings for the following FA:



Using the code you have developed, query it with several strings from $\{a, b\}^*$ to determine which strings this FA accepts.

What to hand in:

1. (10 pts) Your documented Prolog Code
2. (5 pts) The scripts showing the strings you have tested.
3. (5 pts) An informal intensional specification for the Language