CS 4850 Fall 2014 State Machine Assignment

Turn in two files on E-learning

1. Your circles and arrows design
2. Your C code that compiles as standard Ansi C
3. Your circles and arrows design must have the letters causing the transition as labels on the arrows.
   1. You can draw it by hand and scan it or use MS Word or any other drawing program to produce it.
   2. Turn in a FILE not paper
4. Your C code must be a table driven state machine
   1. A direct translation of your design as in 1 above.
   2. Properly formatted with meaningful variable names
   3. Must compile on Linux with the Ansi C switch set
   4. You should write this your self
   5. Have a function that reads a character and returns an index to your table or -1 for end
   6. Read lines from stdin till end of file
   7. Parse each line for the tokens
   8. Print the first key found in each line
5. Keys
   1. APPLE
   2. ANN
   3. ANNEX
   4. Your code should return ANN only if it is not ANNEX