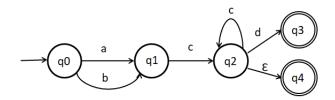
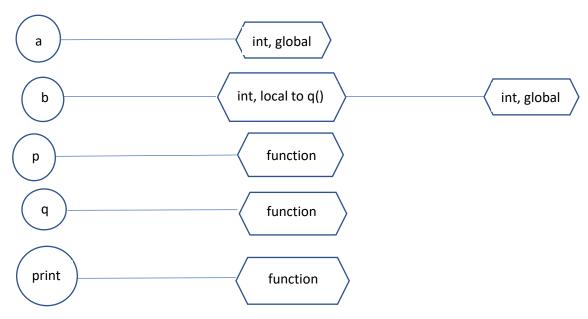
CS 571 Assignment #2

1. Draw an automaton that accepts the regular expression (a|b)(c^+d ?)



2a. Draw the symbol table for the following C program at point 1 using static scoping.



2b. What does the program print using static scoping?

4

3

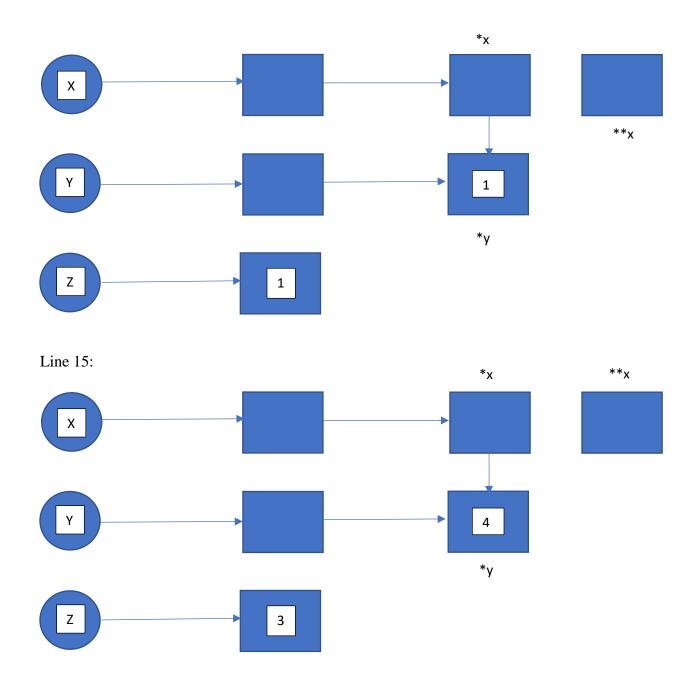
2c. What does the program print using dynamic scoping?

4

5

3. Draw box-and-circle diagrams of variables after each of the two assignments to **x (Lines 11 and 15). What does the program print?

Line 11 (next page):



Prints:

4a. Give the output of the program using call-by-reference.

4b. Give the output of the program using call-by-name.

 $0\ 2\ 1\ 2$

012