CS 312 Work Assignment 2

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1. Write

    (a) $E \vdash x : lessthan0$
        $E \vdash x : e'$

    (b) $(a+b)^*b^+a?|a$

    (c) $a^*(ba^*b)^*a^*$

    (d) a^*b^*

2. Draw DFAs for the languages from Question 1 b-d. None of your DFAs may contain more than 4 states.

    d

3. Give a one sentence description of the language recognized by this NFA. Write a regular expression for this language

   This is any combo of 0 or 1 with at least 2 zeros.

   $(0+1)^*0((0+1)(0+1)(0+1))^*0(0+1)^*$

4. $["-"?][1-9]^+[0-9]^*|0$