PROJECT 1: 6140

For the four circuits:

s27.chat

s298f\_2.chat

s344f\_2.chat

s349f\_2.chat

You are to develop a circuit simulator and test it with the following inputs for each circuit:

s27.chat

1110101 1001

0001010 0100

1010101 1001

0110111 0001

1010001 1001

s298f\_2.chat

10101010101010101 00000010101000111000

01011110000000111 00000000011000001000

11111000001111000 00000000001111010010

11100001110001100 00000000100100100101

01111011110000000 11111011110000101101

s344f\_2.chat

101010101010101011111111 10101010101010101010101101

010111100000001110000000 00011110000000100001111100

111110000011110001111111 00011100000111011000111010

111000011100011000000000 00001101111001111111000100

011110111100000001111111 10011101111000001001000100

s349f\_2.chat

101010101010101011111111 10101010101010101101010101

010111100000001110000000 00011110000000101011110000

111110000011110001111111 00011100000111010001111100

111000011100011000000000 00001101111001110010001111

011110111100000001111111 10011101111000001010000100

Your report is to contain:

1. A one-page description of the data structures you used to implement your simulator (max)

2. A one-page description of your simulation algorithm in flow diagram form or pseudo-code.

3. For each circuit simulated, the inputs and outputs in vector form entered into a table (neatly) ....

Total size of report: 2 pages + simulation data above

Due date: Tue Sept 17th