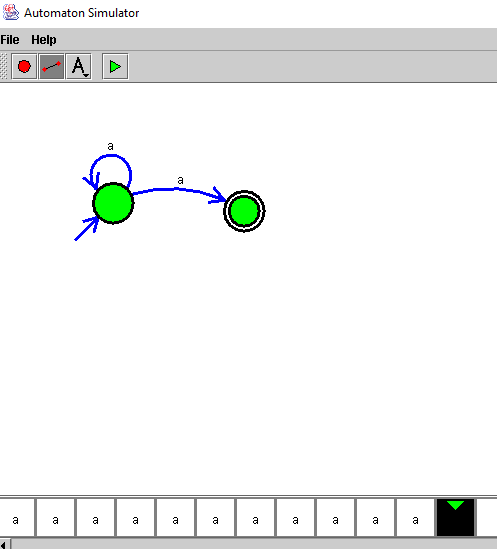
<http://www.cburch.com/proj/autosim/download.html>

1. Design DFA to accept bcaaaaaaaaaaaaaa, bc, and c



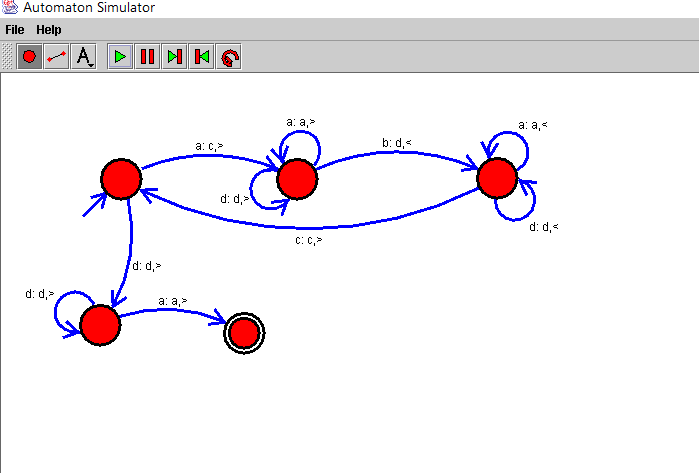
2.Design NFA to accept aaaaaa



3.Design PDA for the input a^nb^n



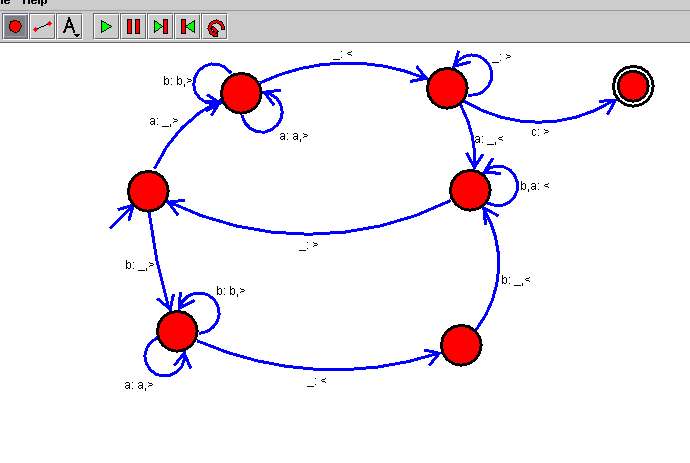
1. Design Tm For input a^nb^n



5 .Design PDA for input aabbbbc ( L=a^nb^2n)



1. TM Simulation for Palindrome W= ababa c



7.Design TM to perform addition of following

W= aa+ aaaa

After Addition of a’s = aaaaaa



8.Design TM to perform subtraction

W= aaa-aa

The Result of Subtraction is = a



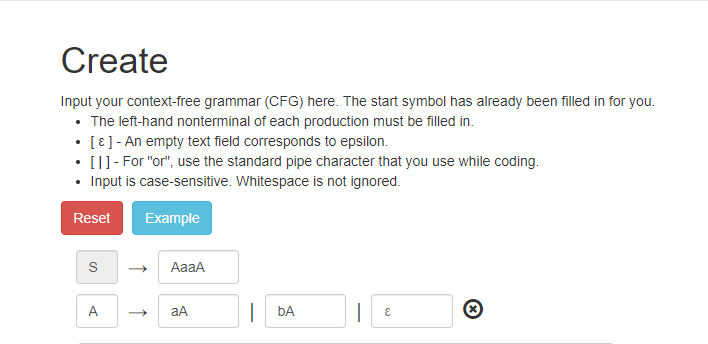
9.Design TM to perofrm string comparison

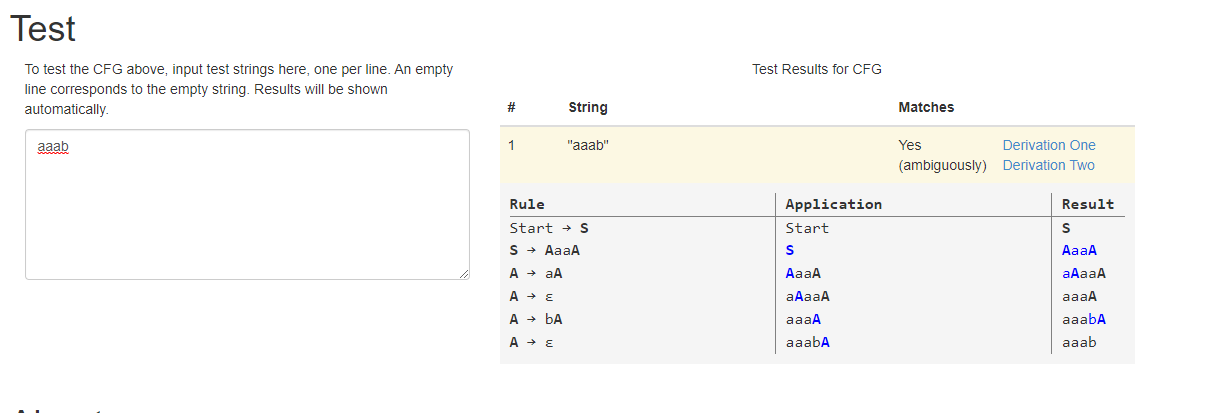
W = aba aba



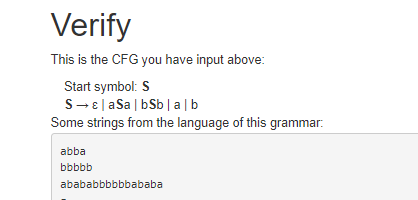
<https://web.stanford.edu/class/archive/cs/cs103/cs103.1156/tools/cfg/>

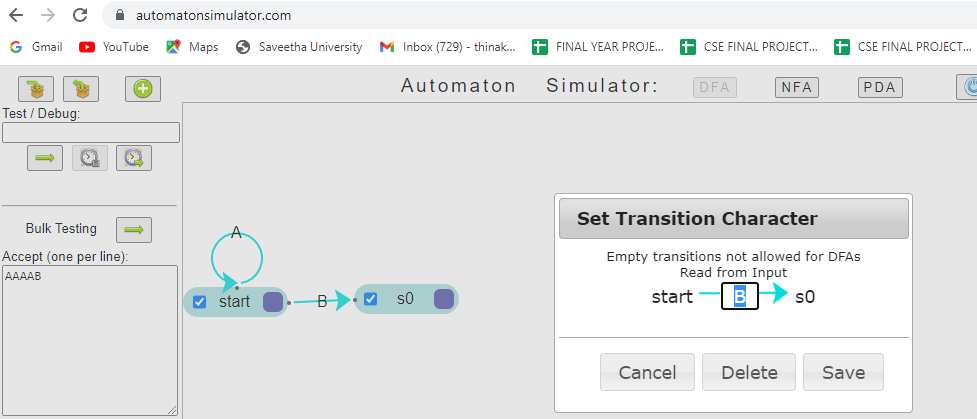
1. Write CFG to product string which consists of substring ‘aa’

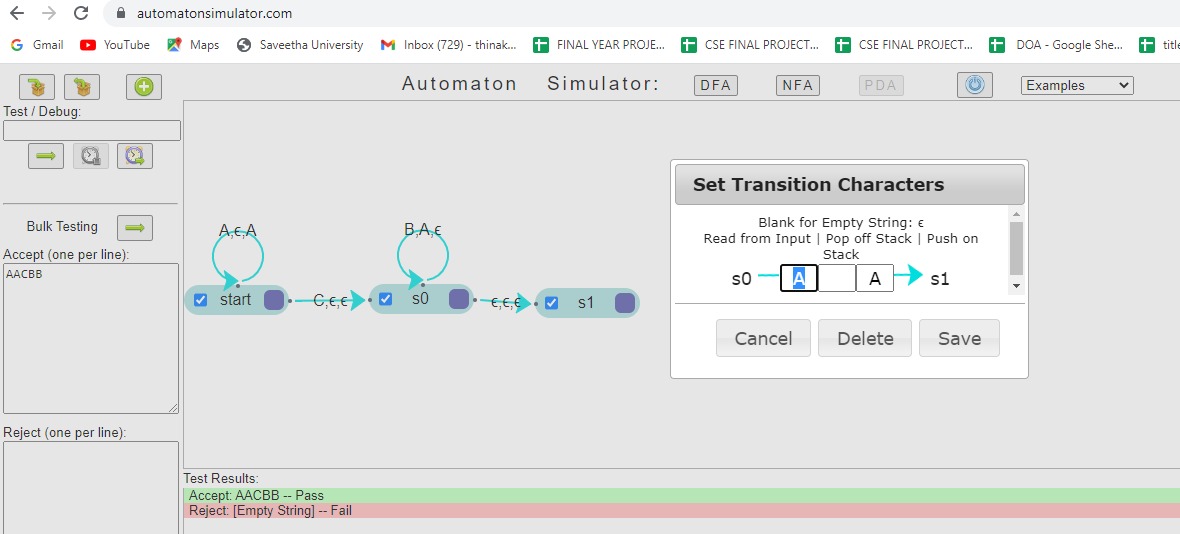


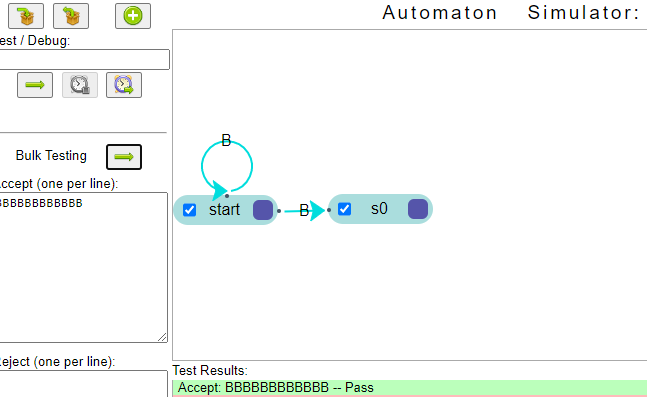


11.Write Context Free Grammar to Generate Palindrome

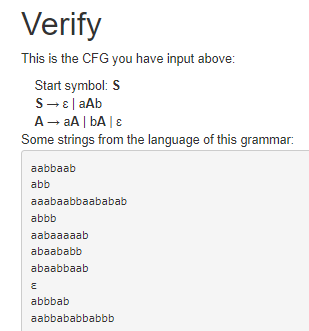


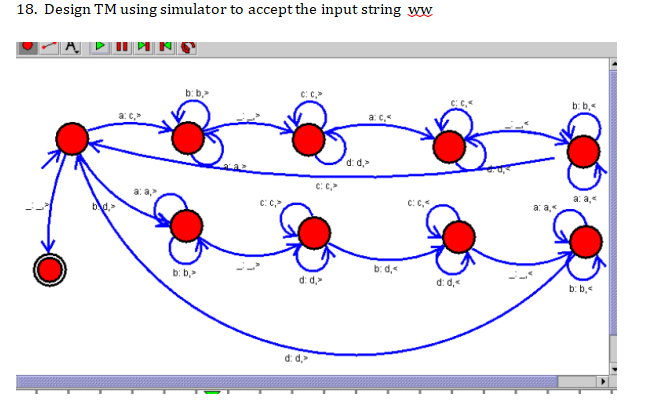
12. 

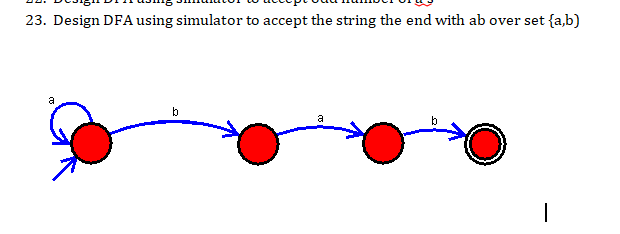


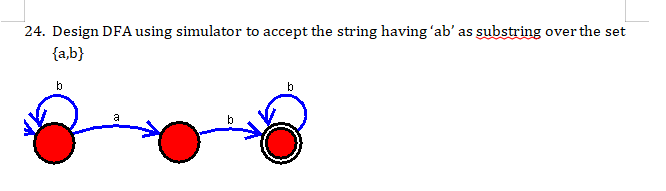
13.

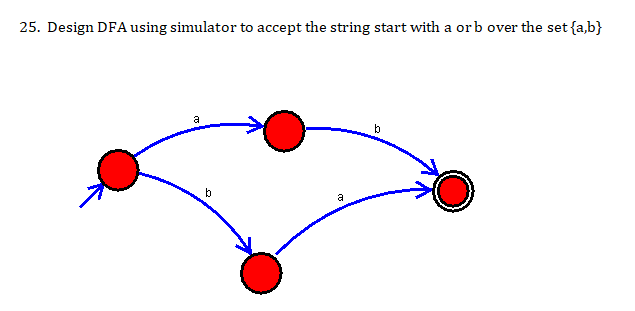
1. Write CFG which will produce string over set = {a,b} that start with ‘a’ and end with ‘b’

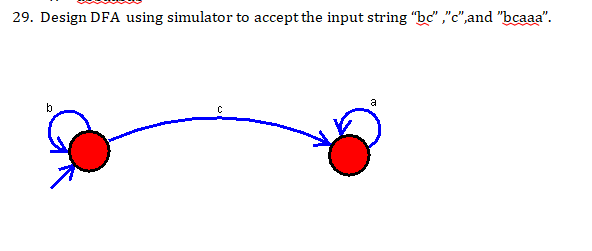




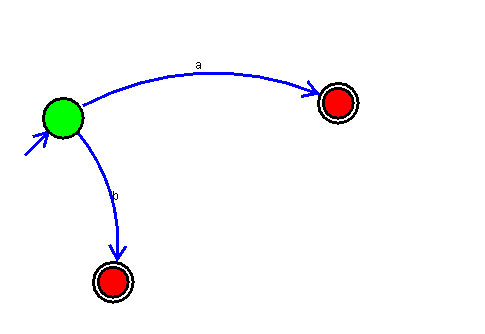








Design a Deterministic Finite Automaton (DFA) that accepts the union of languages L1 and L2, where L1 accepts the string "0" and L2 accepts the string "1", we need to create a DFA that accepts strings "0" or "1".



.Design DFA for accepting all the strings of L={1\* / 1>=0 }

Design DFA for accepting all the strings of L={0m1n / m>=0 and n>=1}

Design a Turing Machine using a simulator to accept the input string "wcw" over the alphabet {a, b}, where 'C' is the check-off symbol and w = "ab".