CSC341 Lab 7B

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Academic Honesty

Written Sources Used:

None

Help Obtained:

None

Question 1

1. 111
2. 1101111
3. 110
4. 1100110101
5. V = 10

    E = 0110

Question 2

1 and 2

Question 3

We can create a TM that only accepts or rejects for all inputs which allows E_{DFA} to be decideable.

1. Take an input of DFA D in the format that is understandable by the TM.
2. Run D with an empty string ε.
3. If the TM ends in an accept state with the input ε, this means that ε is in the language of D, accept.
4. If the TM ends in a non-accept state, then ε is not in the langauge of D, reject.