Practice Quiz

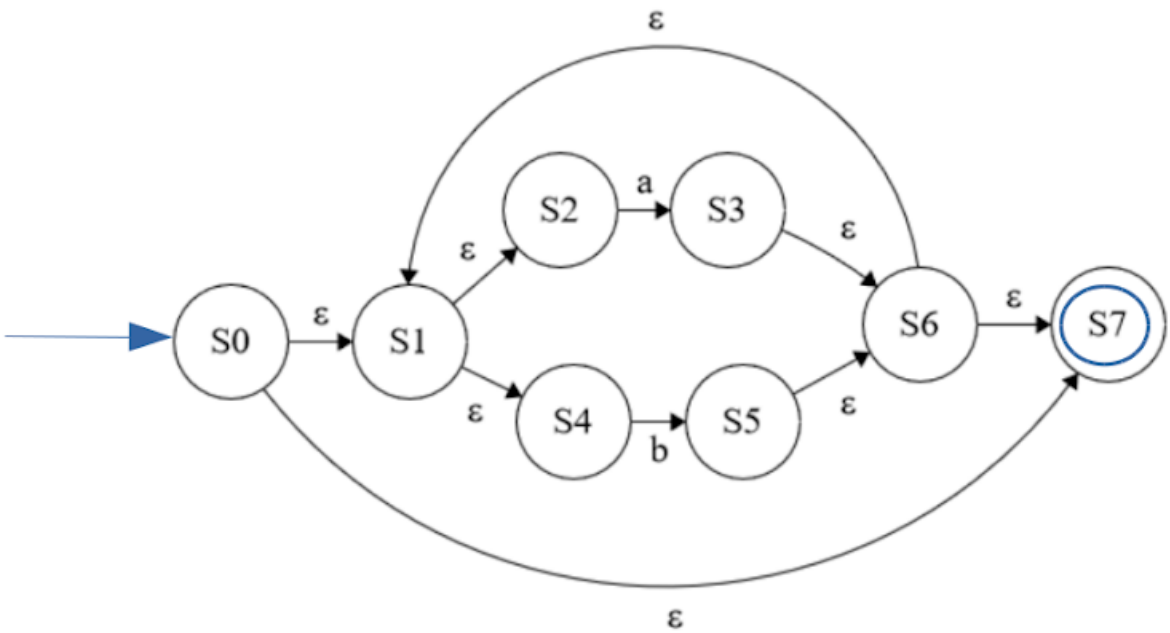
* Required

Answer all the questions

True or False : Every DFA with n states must accept at least one string of length greater than n. * 1 point

- ○ True
- ◉ False

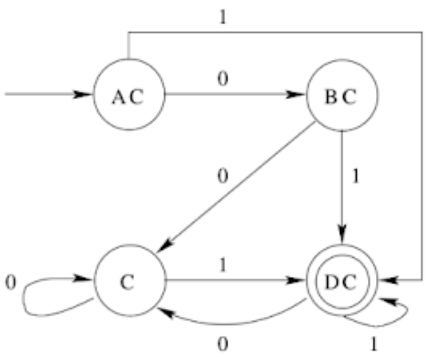
What is lambda-closure (or epslion-closure) of state S5? * 2 points



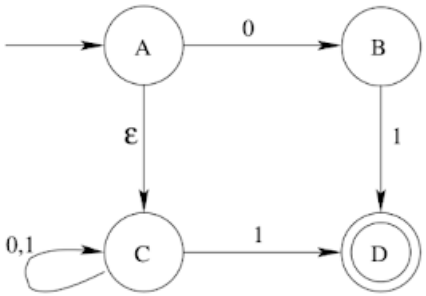
- ○ S5, S6, S7
- ◉ S1, S2, S4, S5, S6, S7
- ○ S6, S1, S7, S2, S4
- ○ S0, S1, S2, S3, S4, S5, S6, S7

Is the language accepted by the given two Finite Automatons Same? * 2 points

Automata 1



Automata 2



- (●) Yes
- ( ) No
- ( ) Cannot be determined

Let w be any string of length n is {0,1}*. Let L be the set of all substrings of w. What is the minimum number of states in a non-deterministic finite automaton that accepts L? 1 point

- ( ) n-1
- ( ) n
- (●) n+1
- ( ) 2n

Clear selection

Given the language L = {ba, aa, ab}, which of the following strings is not in L*? * 1 point

- [ ] abaabaaaba
- [x] aaaabaaaa
- [ ] baaaaabaaaab
- [ ] baaaaabaab

What is the minimum no. of states in a DFA that accepts the following language: Strings over the alphabet {0, 1} where words start and end with a 1, have even length and where any 0 in the word is immediately followed by at least one 1.Example of accepted words: 1011, 101101, 1111Example of non accepted words: 101, 1001, 010 * 2 points

- [ ] 4
- [x] 5
- [ ] 6
- [ ] 7

A minimum state deterministic finite automaton accepting the language L= {w | w ε {0,1} *, number of 0s and 1s in w are divisible by 3 and 7, respectively} has 1 point

- [ ] 10 States
- [ ] 14 States
- [ ] 20 States
- [x] 21 States

Clear selection

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