Gradiance Online Accelerated Learning

Zayd

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Help

Homework Assignment Submitted Successfully.

You obtained a score of 12.0 points, out of a possible 12.0 points.
You have answered all the questions correctly.

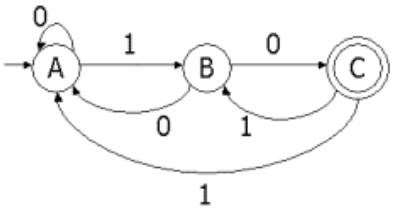
Congratulations, you have achieved the maximum possible score.

Submission number:	59864
Submission certificate:	FI845545
Submission time:	2014-02-08 23:44:59 PST (GMT - 8:00)

Number of questions:	4
Positive points per question:	3.0
Negative points per question:	1.0
Your score:	12

Based on Section 2.3 of HMU.

1. The following nondeterministic finite automaton:



accepts which of the following strings?

a) 010111

b) 0110011

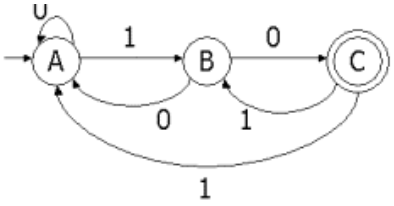
c) 00010111

d) 1011010

Answer submitted: **d)**

You have answered the question correctly.

2. Convert the following nondeterministic finite automaton:



to a DFA, including the dead state, if necessary. Which of the following sets of NFA states is **not** a state of the DFA that is accessible from the start state of the DFA?

a) {A}

b) {B}

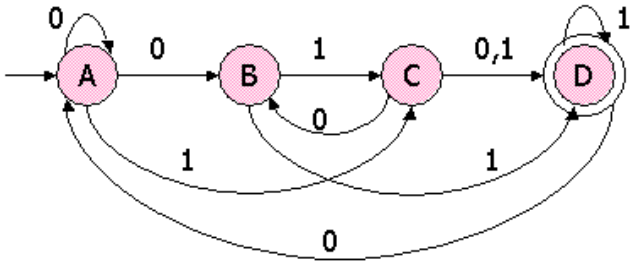
c) {A,B}

d) {C}

Answer submitted: **d)**

You have answered the question correctly.

3. Here is a nondeterministic finite automaton:



Some input strings lead to more than one state. Find, in the list below, a string that leads from the start state A to three different states (possibly including A).

a) 01010

b) 00100

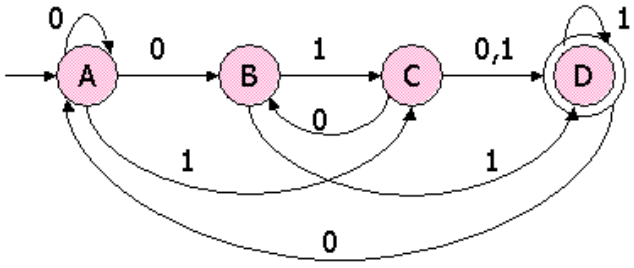
c) 0000

d) 1000

Answer submitted: **a)**

You have answered the question correctly.

4. Here is a nondeterministic finite automaton:



Convert this NFA to a DFA, using the "lazy" version of the subset construction described in Section 2.3.5 (p. 60), so only the accessible states are constructed. Which of the following sets of NFA states becomes a state of the DFA constructed in this manner?

a) {B,C,D}

b) The empty set

c) {A,B,D}

d) {A,D}

Answer submitted: **c)**

You have answered the question correctly.