

0/5 Questions Answered

Week 2 Friday Review Quiz

Student Name

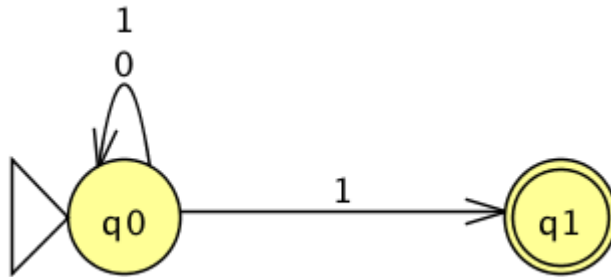
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Q1 Strings accepted by NFA

2 Points

Select all (and only) the strings of length 3 that are accepted by the NFA over the alphabet $\{0, 1\}$ with state diagram:



☐ 000

☐ 001

☐ 010

☐ 011

☐ 100

☐ 101

☐ 110

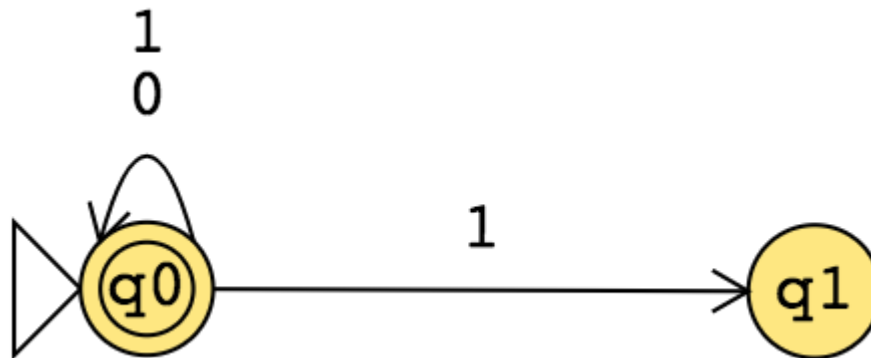
☐ 111

Save Answer

Q2 Strings accepted by NFA

2 Points

Select all (and only) the strings of length 3 that are accepted by the NFA over the alphabet $\{0, 1\}$ with state diagram:



☐ 000

☐ 001

☐ 010

☐ 011

☐ 100

☐ 101

☐ 110

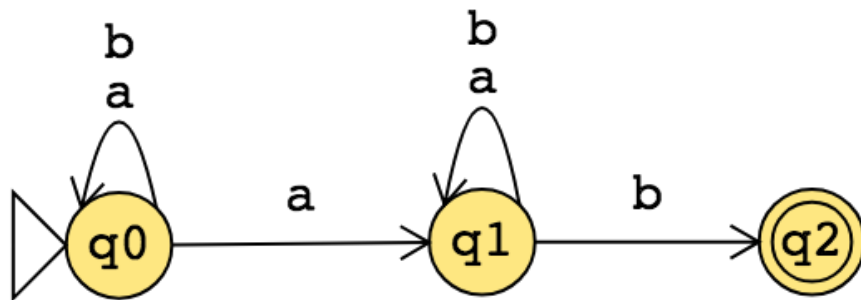
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Save Answer

Q3 NFA and regular expressions

6 Points

Consider the NFA over the alphabet $\{a, b\}$ with state diagram:



Q3.1 Language recognized by NFA

3 Points

Pick the regular expression that describes the language of this NFA.

$(a \cup b)^*ab$

$(a \cup b)^*ab(a \cup b)^*$

$(a \cup b)^*ab(a \cup b)^*b$

$(a \cup b)^*a(a \cup b)^*b$

$(a \cup b)^*a(a \cup b)b$

None of the above

Save Answer

Q3.2 Languages described by regular expressions

3 Points

Select all and only regular expressions that describe a subset of the language recognized by the NFA.

☐ $(a \cup b)^*ab$

☐ $(a \cup b)^*ab(a \cup b)^*$

☐ $(a \cup b)^*ab(a \cup b)^*b$

☐ $(a \cup b)^*a(a \cup b)^*b$

☐ $(a \cup b)^*a(a \cup b)b$

☐ None of the above

Save Answer

Q4 Feedback

0 Points

Any feedback or questions about today's material or comments you'd like to share? (Optional; not for credit)

Save Answer

Save All Answers

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