0/6 Questions Answered

Week 4 Monday Review Quiz

Student Name

Search students by name or email...   ▾

Q1 Pumping lemma
2 Points

Select all and only the statements that are (informally) equivalent to the pumping lemma.

☐ Every regular language has a pumping length.

☐ Every nonregular language does not have a pumping length.

☐ If L has a pumping length, then L is regular.

☐ If L does not have a pumping length, then L is nonregular.

Save Answer

Q2 Applying pumping lemma
4 Points

In a proof that a language is nonregular using the pumping lemma, which of the following variables represent witnesses whose value we (as the provers) define? (Select all and only that apply)

- ☐ The positive integer p

- ☐ The string s

- ☐ The string x

- ☐ The string y

- ☐ The string z

- ☐ The nonnegative integer i

Save Answer

Q3 Nonregular sets
4 Points

Select and only the languages below that are nonnregular.

☐ $\{0^n 1^n \mid n \geq 0\}$

☐ $\{0^n 1^m \mid n, m \geq 0\}$

☐ $\{0^n 1^m \mid 0 \leq n \leq m\}$

☐ $\{0^n 1^m \mid 0 \leq m \leq n\}$

☐ $\{0^n 1^m 0^n \mid n, m \geq 0\}$

Save Answer

Q4 Extended Feedback
0 Points

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

Q4.1 What's working?
0 Points

What are you, as a student, doing that is helping your learning?

What are we, as course staff, doing that is helping your learning?

Save Answer

Q4.2 What can be improved?
0 Points

What can you, as a student, change or start doing to improve your learning?

[text input box]

What can we, as course staff, change or start doing to improve your learning?

[text input box]

Additional information you would like to share with the instructor?

[text input box]

Save Answer

Q4.3 Course material
0 Points

Describe the single most confusing concept for you this quarter so far.

[text input box]

Describe the single most interesting concept for you this quarter so far.

[text input box]

Save Answer

Save All Answers   Submit & View Submission ❯