Quiz 14 Results for Daniel Ramirez

! Correct answers are hidden.

Score for this quiz: 4.3 out of 6

Submitted Dec 4 at 7:41pm

This attempt took 30 minutes.

Question 1	1 / 1 pts
The pumping lemma is often used to prove that a language is: a) Context free b) Not context free c) Regular d) context sensitive	
а	
С	
_ d	
✓ b	

Incorrect

Question 2

0 / 1 pts

Let L have grammar G, with start symbol S_1 .

To accept the language L*, a new grammar can be defined by introducing to G a new start symbol S and the productions

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I) S \rightarrow S_1S \mid \lambda

II) S \rightarrow S_1S

III) S \rightarrow S_1 \mid \lambda

IV) None of the above
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☑ III			
□ IV			

Partial

Question 3 0.5 / 1 pts

For every CFL L there is an integer m, such that for every string z in L of length \geq m, there exists z = uvxyz such that: Which of the following are true by pumping lemma I) $|vxy| \le m$ II) |vx| > 0III) |vx| > 1IV) $uv^2xy^2z \in L$ $vwx \in L$ V) VI) |vy| > 0VII) uxy ∈L viii) uxz ∈L IV ✓ VI **✓** VIII

Question 4	1 / 1 pts
Which of the following accepters can accept $L = \{0^n1^n0^n \mid n \text{ is a integer}\}$	any
✓ LBA	
□ NPDA	
□ DFA	
✓ Turing Machine	
□ NFA	
□ DPDA	

Question 5	1 / 1 pts
If a language is accepted by a Turing Machine, can you say for co	ertain it is
I) DFA II) NFA III) LBA IV) PDA V) No. It may not be accepted by NFA or PDA or LBA	
✓ V	

П		
□ IV		

Partial

Question 6	0.8 / 1 pt
Which accurately describes the comparison in te cower of an automata	erms of the computational
I) NPDA > DPDA II) NFA > DFA III) LBA > DFA IV) LBA > DPDA V) LBA < General Turing Machine VI) Turing Machine > LBA > NPDA > NFA	
VI) TUI IIIg MACIIIIIE > LDA > NPDA > NFA	
✓ IV	
✓ IV ✓ I	
✓ I	
✓ I	

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