Dashboard / My courses / MA-224-G 24H / Tests / Test 1 (topics 1-3: Introduction, Concepts, Induction, Recursion, Grammars)

Started on Wednesday, 11 September 2024, 2:32 PM

State Finished

Completed on Wednesday, 11 September 2024, 2:54 PM

Time taken 22 mins 56 secs

Marks 1.50/3.00

Grade 1.50 out of 3.00 (50.01%)

Information

This page contains all the problems for this test. The very last problem asks you to contact the person in charge of the exam and tell him or her the 4-digit key given in the problem text. In return you will be given a 5-digit signing code which you must give as the answer to the problem.

This problem does not count towards the final score, but tests missing this code will not count towards the final grade.

The following rules apply:

- Total time allowed: 30 minutes. The test will automatically close if time runs out.
- · UiA's usual rules in regards to cheating on exams apply.

None of the above

24, 2:55 PM	Test 1 (topics 1-3: Introduction, Concepts, Induction, Recursion, Grammars): Attempt review
Question 1	
Correct	
Mark 1.00 out of 1.00	
Consider the set	
Consider the set	
	$\{6,7,\{6,7\},\{7\},\{\{6\}\},\{\{7\}\}\}.$
Mark all true statements.	
[{{6}} ⊆ S	
	
7 ⊆ S	
 6 ∈ S	
{{7}} ⊆ S	
√ {7} ⊆ S	
7 ∈ S	
□ {6} ∈ S □	
6 ⊆ S	

Question 2	
Partially correct	
Mark 0.50 out of 1.00	

Complete the following division computations.

dividend	1	divisor	=	quotient	(remainder)
2602	1	184	=	Your last answer was interpreted as follows:	(Your last answer was interpreted as follows:)
-1619	1	193	=	Your last answer was interpreted as follows: -8	(Your last answer was interpreted as follows:)
Your last answer was interpreted as follows: 2499	1	112	=	22	(35)
1907	1	Your last answer was interpreted as follows:	=	10	(97)

Consider the grammar ({a,b,c},{S,A,B,C},S,{(S,A),(S,AB),(S,ABC),(S,BC),(A,aA),(B,b),(B,bB),(C,Cc),(C,cC)}). Select all the strings that can be generated by this grammar. bb abba aaab acc a abccc bc abbbcc c ab ab	Question 3	
Consider the grammar \[\left(a, b, c\), \{S, A, B, C\}, S; \{(S, A), (S, AB), (S, ABC), (S, BC), (A, aA), (B, b), (B, bB), (C, Cc), (C, cC)\}\right). \] Select all the strings that can be generated by this grammar. \[\begin{align*} b \\ b \\ aaab \] aaab \[aacc \] a \[\abbeta \\ abcccc \] b \[\abbeta \\ abbeta \\ \abbeta	ncorrect	
({a,b,c}, {S,A,B,C},S,{(S,A),(S,AB),(S,ABC),(S,BC),(A,aA),(B,b),(B,bB),(C,Cc),(C,cC)}}). Select all the strings that can be generated by this grammar. b b	VIAIR 0.00 out of 1.00	
Select all the strings that can be generated by this grammar. b abba ababa acc a abcccc bc abbbcc c ab None of the above Signing code Before closing the test you must answer this problem with a signing code given to you by the person in charge of the test. Tests missing this signing code will be ignored and will not count towards the final score. Key: 523 Signing code: 27491 Your last answer was interpreted as follows: 27491	Consider the grammar	
abba aaab acc ac a a abccc bc abbcc c c ab None of the above Signing code Before closing the test you must answer this problem with a signing code given to you by the person in charge of the test. Tests missing this signing code will be ignored and will not count towards the final score. Key: 523 Signing code: 27491 Your last answer was interpreted as follows: 27491 ▼Technical test	$\Big(\{a,b,c\},\{$	$\{S,A,B,C\},S,\{(S,A),(S,AB),(S,ABC),(S,BC),(A,aA),(B,b),(B,bB),(C,Cc),(C,cC)\}$.
abba aaab acc a abcccc bc abbccc c ab None of the above service to the condition of the above Signing code Before closing the test you must answer this problem with a signing code given to you by the person in charge of the test. Tests missing this signing code will be ignored and will not count towards the final score. Key: 523 Signing code: 27491 Your last answer was interpreted as follows: 27491	Select all the strings that	t can be generated by this grammar.
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